

FILE HISTORY

08/737,879

INVENTORS: JACQUES GOUGET

TITLE: SAFETY URINAL

APPLICATION
NO: 08/737,879

FILED: 22 NOV 1996

COMPILED: 14 OCT 2015

Class Subclass ISSUE CLASSIFICATION SCANNED 7		UTILITY SERIAL NUMBER 08/737879		PATENT DATE		PATENT NUMBER	
SERIAL NUMBER 08/737879		FILING DATE 11/22/96		CLASS 004		SUBCLASS 144.1	
GROUP ART UNIT 3751		EXAMINER Walczak					
APPLICANTS JACQUES GOSSET, PARIS, FRANCE.							
BEST COPY							
CONTINUING DATA VERIFIED OK THIS APPLN IS A 371 OF PCT/FR96/00412 03/19/96 NW							
FOREIGN/PCT APPLICATIONS VERIFIED OK FRANCE 95/03504 03/24/95 NW							
***** SMALL ENTITY *****							
Foreign priority claimed 35 USC 119 conditions met		☐ yes ☒ no ☐ yes ☒ no		AS FILED ☒		STATE OR COUNTRY FRX	
Verified and Acknowledged Examiner's Initials		SHEETS DRWGS. 1		TOTAL CLAIMS 21		INDEP. CLAIMS 1	
FILING FEE RECEIVED \$466.00		ATTORNEY'S DOCKET NO. GOU0001-PCT		ADDRESS Michael D. Bednarek, Esq. Crowell & Moring LLP 700 15TH STREET NW SUITE 800 WASHINGTON DC 20005 Washington, D.C. 20004-2595			
SAFETY URINAL							
U.S. DEPT. OF COMM./PAT. & TM—PTO-436L (Rev.12-84)							
PARTS OF APPLICATION FILED SEPARATELY							
NOTICE OF ALLOWANCE MAILED				Applications Examiner			
Assistant Examiner				CLAIMS ALLOWED Total Claims Print Claim			
ISSUE FEE Amount Due Date Paid				DRAWING Sheets Drwg. Figs. Drwg. Print Fig.			
Label Area				Primary Examiner ISSUE BATCH NUMBER			
PREPARED FOR ISSUE							
WARNING: The information disclosed herein may be restricted. Unauthorized disclosure may be prohibited by the United States Code, Title 35, Sections 322, 361, and 368. Possession outside the U.S. Patent & Trademark Office is restricted to authorized employees and contractors only.							

Form PTO-436A
(Rev. 8/93)

SCAN 5 KS
QC 12A

96
(FACE)

08/737,879

SAFETY URINAL

Transaction History

Date	Transaction Description
11-22-1996	Information Disclosure Statement (IDS) Filed
11-22-1996	Information Disclosure Statement (IDS) Filed
11-22-1996	Receipt of 371 Request
12-12-1996	IB Paper Match
12-13-1996	371 Application Preexamination Docketing
12-17-1996	371 Application Preexamination Docketing
12-17-1996	371 Application Preexamination Docketing
12-17-1996	371 Application Preexamination Docketing
12-17-1996	371 Application Preexamination Docketing
01-31-1997	Released to OIPE
01-31-1997	Notice of DO/EO Acceptance Mailed
03-11-1997	Released to OIPE
05-12-1997	Application Captured on Microfilm
05-12-1997	IFW Scan & PACR Auto Security Review
05-27-1997	Case Docketed to Examiner in GAU
07-25-1997	Non-Final Rejection
07-29-1997	Mail Non-Final Rejection
10-24-1997	Response after Non-Final Action
10-24-1997	Substitute Specification Filed
10-29-1997	Date Forwarded to Examiner
10-31-1997	Incoming Letter Pertaining to the Drawings
10-31-1997	Supplemental Response
11-06-1997	Date Forwarded to Examiner
12-04-1997	Mail Restriction Requirement
12-04-1997	Restriction/Election Requirement
02-04-1998	Response to Election / Restriction Filed
02-04-1998	Request for Extension of Time - Granted
03-03-1998	Date Forwarded to Examiner
03-30-1998	Final Rejection
03-31-1998	Mail Final Rejection (PTOL - 326)
06-30-1998	Response after Final Action
07-02-1998	Date Forwarded to Examiner
07-13-1998	Mail Advisory Action (PTOL - 303)
07-13-1998	Advisory Action (PTOL-303)
07-31-1998	Request for Extension of Time - Granted
10-19-1998	Aband. for Failure to Respond to O. A.
10-20-1998	Mail Abandonment for Failure to Respond to Office Action
03-08-1999	Correspondence Address Change
10-22-2007	Correspondence Address Change

08/737879

FR960042

APPROVED FOR LICENSE

DEL 10-628
INITIALSMr. Wallace
Patent SpecialistDate
Entered
or
Counted

PATENT APPLICATION



08737879

Date
Received
or
Mailed

1. Application 18ht papers.

2. 953

3. Priority Paper

4. Information Disclosure Statement

5. By SM

6. Sub. Spec. → Amdt. A

7. Supplemental Amdt. B

8. Letter to Draftsperson

9. Restriction (no)

10. Ext. of Time (mo)

11. Election

3-30-98 12. Final Rej. 3mas

13. Amdt Cn. e

7-13-98 14. Advisory Action

15. Ext. of Time (mo)

10-19-98 16. Abandonment

17. Change of address

18. Request for Access

19.

20.

21.

22.

23.

24.

25.

26.

27.

28.

29.

30.

31.

32.

31 Jan 97

May 6, 1997

Nov 22, 1996

JUL 29 1997

Oct. 24, 1997

Oct. 31, 1997

Oct. 31, 1997

DEC 04 1997

Feb. 4, 1998

Feb. 4, 1998

MAR 31 1998

10-30-98

JUL 13 1998

7-31-98

OCT 20 1998

March 8, 1999

10-13-95

(FRONT)

Staple Issue Slip Here

POSITION	ID NO.	DATE
CLASSIFIER		
EXAMINER	<i>C. Walker</i>	<i>12-10-96</i>
TYPIST	<i>AR</i>	<i>1-23-97</i>
VERIFIER	<i>422</i>	<i>4-21-97</i>
CORPS CORR.		
SPEC. HAND		
FILE MAINT.		
DRAFTING		

INDEX OF CLAIMS

Claim	Date
Final	
Original	
1	<i>7/24/97</i>
2	<i>9/2/97</i>
3	<i>0</i>
4	<i>0</i>
5	<i>0</i>
6	<i>0</i>
7	<i>0</i>
8	<i>0</i>
9	<i>0</i>
10	<i>0</i>
11	<i>0</i>
12	<i>0</i>
13	<i>0</i>
14	<i>0</i>
15	<i>0</i>
16	<i>0</i>
17	<i>0</i>
18	<i>0</i>
19	<i>0</i>
20	<i>0</i>
21	<i>0</i>
22	<i>0</i>
23	<i>0</i>
24	<i>0</i>
25	<i>0</i>
26	<i>0</i>
27	<i>0</i>
28	<i>0</i>
29	<i>0</i>
30	<i>0</i>
31	<i>0</i>
32	<i>0</i>
33	<i>0</i>
34	<i>0</i>
35	<i>0</i>
36	<i>0</i>
37	<i>0</i>
38	<i>0</i>
39	<i>0</i>
40	<i>0</i>
41	<i>0</i>
42	<i>0</i>
43	<i>0</i>
44	<i>0</i>
45	<i>0</i>
46	<i>0</i>
47	<i>0</i>
48	<i>0</i>
49	<i>0</i>
50	<i>0</i>

Claim	Date
Final	
Original	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	
61	
62	
63	
64	
65	
66	
67	
68	
69	
70	
71	
72	
73	
74	
75	
76	
77	
78	
79	
80	
81	
82	
83	
84	
85	
86	
87	
88	
89	
90	
91	
92	
93	
94	
95	
96	
97	
98	
99	
100	

SYMBOLS
 ✓ Rejected
 - Allowed
 + (Through numerical) Canceled
 R Restricted
 N Non-elected
 I Interference
 A Appeal
 O Objected

(1 FET INSIDE)

SEARCHED			
Class	Sub.	Date	Exmr.
4	144.1 144.2 750 957	7/24/77 ✓	RL ✓

INTERFERENCE SEARCHED			
Class	Sub.	Date	Exmr.

[illegible]

6

BAR CODE LABEL 		U.S. PATENT APPLICATION			
SERIAL NUMBER 08/737,879	FILING DATE 11/22/96	CLASS 004	GROUP ART UNIT 3105		
APPLICANT JACQUES GOUGET, PARIS, FRANCE. ***** **CONTINUING DATA***** VERIFIED THIS APPLN IS A 371 OF PCT/FR96/00412 03/19/96 _____ ***** **FOREIGN/PCT APPLICATIONS***** VERIFIED FRANCE 95/03504 03/24/95 _____ ***** SMALL ENTITY *****					
STATE OR COUNTRY FRX	SHEETS DRAWING 1	TOTAL CLAIMS 21	INDEPENDENT CLAIMS 1	FILING FEE RECEIVED \$466.00	ATTORNEY DOCKET NO. GOU0001-PCT
ADDRESS KILPATRICK & CODY LLP 700 13TH STREET NW SUITE 800 WASHINGTON DC 20005					
TITLE SAFETY URINAL					
This is to certify that annexed hereto is a true copy from the records of the United States Patent and Trademark Office of the application which is identified above. By authority of the COMMISSIONER OF PATENTS AND TRADEMARKS Date Certifying Officer					

5 SEP 1996

PATENT APPLICATION SERIAL NO. **08/737879**

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE
FEE RECORD SHEET

FC18073 03/04/97 08737879
FC18074 03/04/97 08737879
FC18075 03/04/97 08737879

11-0855	180	971	65.00CR
11-0855	180	967	22.00CR
11-0855	180	969	130.00CR

180 SE 02/06/97 08737879
180 SE 02/06/97 08737879
180 SE 02/06/97 08737879
180 SE 02/06/97 08737879

1-961	520.00-CK
1-966	33.00-CK
1 971	520.00 CK
1 967	33.00 CK

PTO-1556
(5/87)

510 12/04/95 08737879 OK Refund 12/27
1-961 520.00 CK
1-966 33.00 CK
1 971 520.00 CK
1 967 33.00 CK

Transaction History Date 1996-11-22
Date information retrieved from USPTO Patent
Application Information Retrieval (PAIR)
system records at www.uspto.gov

105 Rec'd PCT/PTO 22 NOV 1996

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER GOU0001-PCT
		U.S. APPLICATION NO. (If known, insert G.P.N.) 08/737879
INTERNATIONAL APPLICATION NO. PCT/FR96/00412	INTERNATIONAL FILING DATE 19 MARCH 1996	PRIORITY DATE CLAIMED 24 MARCH 1995
TITLE OF INVENTION IMPROVED SAFETY URINAL		
APPLICANT(S) FOR DO/EO/US JACQUES GOUGET		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. ☒ This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.		
2. ☐ This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.		
3. ☒ This express request to begin national examination procedures (35 U.S.C. 371(f) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(I).		
4. ☒ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.		
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2) a. ☐ is transmitted herewith (required only if not transmitted by the International Bureau). b. ☒ has been transmitted by the International Bureau c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).		
6. ☒ A translation of the International Application into English (35 U.S.C. 371(c)(2).		
7. ☒ Amendment to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3) a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau). b. ☒ have been transmitted by the International Bureau. c. ☐ have not been made; however, the time limit for making such amendment has NOT expired. d. ☐ have not been made and will not be made.		
8. ☒ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3).		
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).		
10. ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).		
Items 11 to 16 below concern either document(s) or information included:		
11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.		
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 37 CFR 3.29 is included.		
13. ☐ A FIRST preliminary amendment. ☐ A SECOND or SUBSEQUENT preliminary amendment.		
14. ☐ A substitute specification.		
15. ☐ A change of power of attorney and/or address letter.		
16. ☒ Other items or information. Small Entity Statement		

105 Rec'd PCT/PTO 22 Nov 1996

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER GOU0001-PCT
		U.S. APPLICATION NO. (If known, state 37 C.F.R. 1.53) 08/737879
INTERNATIONAL APPLICATION NO. PCT/FR96/00412	INTERNATIONAL FILING DATE 19 MARCH 1996	PRIORITY DATE CLAIMED 24 MARCH 1995
TITLE OF INVENTION IMPROVED SAFETY URINAL		
APPLICANT(S) FOR DO/EO/US JACQUES GOUGET		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. ☒ This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. ☐ This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. ☒ This express request to begin national examination procedures (35 U.S.C. 371(f) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(I). 4. ☒ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date. 5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. ☐ is transmitted herewith (required only if not transmitted by the International Bureau). b. ☒ has been transmitted by the International Bureau c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US). 6. ☒ A translation of the International Application into English (35 U.S.C. 371(c)(2)). 7. ☒ Amendment to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau). b. ☒ have been transmitted by the International Bureau. c. ☐ have not been made; however, the time limit for making such amendment has NOT expired. d. ☐ have not been made and will not be made. 8. ☒ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 16 below concern either document(s) or information included: 11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. ☐ A FIRST preliminary amendment. ☐ A SECOND or SUBSEQUENT preliminary amendment. 14. ☐ A substitute specification. 15. ☐ A change of power of attorney and/or address letter. 16. ☒ Other items or information. Small Entity Statement		

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)		INTERNATIONAL APPLICATION NO. PCT/FR96/00412		ATTORNEY'S DOCKET NUMBER GOU0001-PCT	
17. ☐ The following fees are submitted: Basic National Fee (37 CFR 1.49(a)(1)-(5): Search Report has been prepared by the EPO or JPO..... International preliminary examination fee paid to USPTO (37 CFR 1.482) No international preliminary examination fee paid to USPTO (37 CFR 1.482) but international search fee paid to USPTO (37 CFR 1.445(a)(2))..... Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO..... International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(2)-(4)..... ENTER APPROPRIATE BASIC FEE AMOUNT =				CALCULATIONS	PTO USE ONLY
				\$ 910.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than ☐ 20 ☐ 30 months from the earliest claimed priority date (37 CFR 1.49(e)).				\$	
Claims	Number Filled	Number Extra	Rate		
Total Claims	23-20 =	3	X \$22	\$ 66.00	
Independent Claim	1-3 =	0	X \$78	\$ -	
Multiple dependent claim(s) (if applicable)			+ \$250	\$ 260.00	
TOTAL OF ABOVE CALCULATIONS				=	\$1,236.00
Reduction by 1/4 for filing by small entity, if applicable. Verified Small Entity statement must also be filed. (Note 37 CFR 1.9, 1.27, 1.28)				\$ 618.00	
SUBTOTAL				=	\$ 618.00
Processing fee of \$130.00 for furnishing the English translation later than ☐ 20 ☐ 30 months from the earliest claimed priority date (37 CFR 1.49(f)).				+	\$
TOTAL NATIONAL FEE				=	\$ 618.00
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate sheet (37 CFR 3.28, 3.31). \$40.00 per property				+	\$
TOTAL FEES ENCLOSED				=	\$ 618.00
				Amount to be refunded:	\$
				charged:	\$
a. ☒ A check in the amount of <u>\$ 618.00</u> to cover the above fees is enclosed. b. ☐ Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate of this sheet is enclosed. c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>11-0855</u> . A duplicate copy of this sheet is enclosed. NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.127(a) or (b)) must be filed and granted to restore the application to pending status. SEND ALL CORRESPONDENCE TO: Kilpatrick & Cody L.L.P. 700 13th Street, N.W. Suite 800 Washington, DC 20005 Dated: November 22, 1996					
				SIGNATURE	
				Michael D. Bednarek	
				NAME	
				32,329	
				REGISTRATION NUMBER	

88 Rec'd PCT/PTC 22 NOV 1996

08/737879

Dawn Brewer
5/21/97

WO 96/29972
PCT/FR96/00412

IMPROVED SAFETY URINAL

5

Known safety urinals, of transparent or translucent plastic material, able to endure a sterilization temperature of 130°C, have an anti-backflow system which is removable by unscrewing to permit cleaning of the unit and is indispensable

10 for emptying.

The safety urinal according to the invention is of transparent or translucent plastic material. It can endure a sterilization temperature of 130°C. It has a removable anti-backflow system especially by unscrewing. Relative to the known models, it moreover contains a special "quick emptying" system which in particular dispenses with removal of the anti-backflow for emptying, prevents release of odors when emptying, and offers moreover judicious modifications and additions which are combined and confer upon it new advantages.

20 For this purpose and according to the invention:

The wall of this improved urinal contains a hole situated approximately toward the end opposite its neck. This hole is positioned above the normal level of filling. This hole is surmounted by a conduit which channels the emptying and

08737879-112295

08737879-112296
962277-6/8/2/80

forms a pouring spout which orients and directs the stream in particular to be able to pour with precision into a test tube. This conduit is equipped at its end which empties outside to receive in particular a shutoff system permitting quick stopping and unstopping. The diameter of this hole and that of the
5 conduit which surmounts it are only sufficient to ensure a rather rapid emptying of this improved urinal. The combination of the hold, the conduit, and the stopping system constitutes the "quick emptying" system of the improved safety urinal.

10 It avoids going out of the anti-backflow system of the neck and having to handle it each time that it is only useful for emptying the aforesaid urinal. A rinsing by the "quick emptying" [system] is possible.

Before, with a urinal, during the emptying of its contents by the large orifice
15 of its neck, the confined internal atmosphere of this urinal escaped unpleasantly toward the handler.

On the other hand, with the improved safety urinal, during its emptying by the "quick emptying" [system], whose internal section is judiciously limited, the
20 emptying stream can easily occupy the whole section. It turns out that there is no longer any passage for the internal atmosphere of the improved urinal

which can permit it to escape during an emptying. Thus, the handler is not inconvenienced.

When the safety urinal is immersed in a cleaning basin, the opening of the
5 "quick emptying" [system] (not stopped) facilitates the rinsing of the entire
inside of the improved urinal.

A connection preferably threaded, extended by a flexible tube is equipped to be
connected to the conduit of the "quick emptying" [system] whose end is equipped
10 with an external threading.

The other end of the flexible tube can be inserted in an emptying siphon of the
type used to receive emptyings from washing machines or in all other
receptacles.
15

This device permits a practical and hygienic emptying of the improved safety
urinal.

An analogous connection with the flexible tube branched to a water inlet can
20 likewise be used for internal rinsing of the improved safety urinal, especially
in a hospital environment.

08737879-112296

A stopper system stops the conduit of the "quick emptying" [system] of the improved safety urinal. This system is either constituted by a simple plug introduced into the conduit, or by a jointed or self-jointing capsule with
5 lips, preferably screwed on the end part of the conduit containing in particular for this purpose an outside threading. To prevent an untimely emptying by a bedridden patient not having all of his mental faculties, the "quick emptying" [system] in this case is stopped by a capsule known as a safety screw (jointed or self-jointing) which once screwed, required, to be
10 able to unscrew it, exertion at the same time of a strong pressure, generally axially. Failing this, the unscrewing does not engage. These safety screw capsules in this case then emit a click-clack noise warning of the attempt at unstopping. Some capsules do not emit any noise during the attempt at unstopping. A supplementary means of avoiding undesired unstopping is that the
15 thread pitch of the capsules and of the conduit, instead of having a normal right hand pitch, are threaded with a left hand pitch.

To permit more easy removal of the simple plug, its upper part may contain a circular shoulder permitting easy grabbing. Likewise the capsules, to
20 facilitate their unscrewing and their rescrewing, are equipped on their periphery with grooves or cut-off corners.

08737879-112296

The simple plug is made of a flexible material which can sustain a temperature of 130°C. Such a plug can be made of flexible silicone for the "quick emptying" system of the improved safety urinal. Actually, this material during successive unstoppings and re-stoppings, offers the advantage of tolerating well the aggressiveness of the orifice of the "quick emptying" system and of admitting a temperature of 130°C.

The screw capsules are of plastic material resisting 130°C and are in particular of the family of polyolefins.

The color of the plug plugging the "quick emptying" system of the improved safety urinal is chosen preferably to draw attention and of a different color than the body of the improved urinal. It is advantageously red or white to permit finding it easily and for perceiving quickly that it is well put into place in the orifice of the "quick emptying" system. A fluorescent color is likewise appropriate.

The stoppers below contain a material storing photons which it is in a lighted environment and restores them in the form of light when it is in darkness thus permitting finding its improved safety urinal at night and this stopper when it

has been momentarily set aside.

A cavity in the stopper system of the "quick emptying" system of the improved safety urinal empties toward the inside of its conduit. This cavity and its
5 orifice are judiciously dimensioned so that it fits together for example elastically inside a small perforated container containing a volatile tablet of the same kind as those placed in the bowls of toilets to purify the internal atmosphere of the aforesaid urinal which the "quick emptying" system is stopped.

10 The hole and its conduit make it possible to make samplings in the aforesaid improved safety urinal and to introduce probes indicating the pH, etc. They are also suitable for introducing and attaching a probe ending in the proximity of the small orifice of the anti-backflow so that when it would be wetted for
15 a certain time, it would establish an electric contact triggering a sound alert announcing in particular the need to empty it.

The color of the material constituting the anti-backflow of the improved safety urinal is advantageously chosen so that is different from that constituting the
20 body of the aforesaid urinal. One therefore perceives externally that it involves a different piece, a part of which goes beyond the end of the neck

of the aforesaid urinal. Thus one sees where one must grab it to be able to
remove it from the urinal. Its coloring permits also seeing better in all
positions any filling yet possible in said urinal by estimating the distance
which remains between the small end of the anti-backflow and the level of the
5 contents.

For safety, to prevent untimely unscrewing of the anti-backflow device by
bedridden patients not having all their mental faculties, its screwing instead
of being classical with a right hand pitch, is equipped with a left hand pitch.

10

To be easy to handle and for hygiene, the improved urinal is advantageously
equipped with a removable or fixed handle. It is of plastic material which can
withstand a sterilization temperature of 130°C. It begins toward the middle of
the back of the improved safety urinal. So that it won't slip from the hands,
15 at its end there is a small boss.

To make the packaging less voluminous and make transporting the improved safety
urinals more economical, their removable handles are of dimensions such that
they can clear the necks of said urinals and be housed in said urinals during
20 their transport and for their storage.

- Removable handle example:

The back of the improved safety urinal contains at least one tab whose axis of symmetry is parallel to the axis of said urinal. This tab has on each side of its base a longitudinal slide or uncoupling. A slide or an analogous system equipped with a section in relation with that of said tab exists in a cavity in the base of the handle. The two side edges of said slide each contain a retainer capable of fitting the said tab introduced by sliding in said slide.

A stop limits the sliding. A stub or its equivalent situated on the top of said tab is elastically positioned in a hollow housing provided for this purpose in said slide or near it, or vice versa. The handle is positioned while remaining detachable. For an undetachable handle the stub and its counterpart each have a vertical side making the snapping on irreversible.

Fixed handle example:

In the case of the manufacture of the urinal from a hollow mass, said mass is dimensioned and positioned so that it extends in the mold beyond the imprint of the urinal in the zone corresponding to the back of said urinal. The knives of the mold are judiciously arranged so that beyond the contour of the imprint of the improved safety urinal they can cut in the profile of the handle the flat

mass which is in excess while leaving the base of said handle connected to the body of the improved safety urinal. During the closure of the mold the knives cut the mass following the contour of the imprint except in the area of the foot of the handle for which they cut the outside contour while hot stamping the latter. The handle is housed in the two half cavities which are not at all deep enough to contain it. This results in a hot pressure so as to weld the two walls between them.

08737879-112296
10 To make this flat handle easier to grasp, the half cavities in the mold forming the housing of this handle have for this purpose at certain points symmetric differences of depth so as to press the plastic material coming out of the mass to make it flow back to other points of these more hollow half cavities symmetrically and thus thicken the handle at certain points having made in this way a veritable hot mold for causing the plastic to flow back from less hollow points to more hollow points.

20 By this hot molding procedure one may also deform the handle on the part provided for grasping it by creating undulations in particular to increase its bulk.

Whether it involves said detachable or fixed handles, the technique which would

consist in obtaining it by blowing would be such as to pose problems of tightness in the case of manufactures done by mass production.

An antiseptic, whether perfumed or not, is grafted for hygiene into the material
5 constituting the body of the improved urinal, in that of its handle and in that of its anti-backflow system, as well as in that of its filler.

Plugs, capsules, handles, and anti-backflow are of a density such that in case of falling into the water they float and are thus easily retrievable.

To make the use of the improved safety urinal even more practical, a urinal carrier which is hung on the side of the bed by a kind of hook is established
for retaining the said urinal available which remains thus within handy reach of the bedridden patient.

This urinal carrier is essentially constituted of only three branches sterilizable at 130°C suitably curved forming an open cage whose components are joined only at two points by welding as applicable. The combination may likewise be made of a single piece of plastic material by molding.

This urinal carrier constitutes a type of open cradle in which the improved

safety urinal rests. For this purpose its shape and its dimensions are specially established to receive said urinal and to keep it laterally in a vertical position (neck in the air).

5 It is sufficiently open in the front to leave easily accessible the grasping notches and/or the handle of said urinal. So that the ends of the legs which constitute it are not harmful, they are fitted with tips of flexible material. Its great simplicity makes its mass production trouble free and facilitates its maintenance and its disinfection.

10 Modes of implementation of the invention are described below by way of non-limiting examples with references to the figures of the enclosed drawings in which:

15 Figure 1 according to the invention is an elevation view with a partial cutaway along CD of the improved safety urinal illustrating the principle of the anti-backflow which can be unscrewed at the neck, of the "quick emptying" system with its threaded neck offering a relatively limited internal section for emptying, [and] of the protuberance forming tab to fit exactly in a
20 detachable way in the slide or an analogous system situated in the base of the handle.

08737879-112299

5

Figure 2 according to the invention is an elevation view with a half- cutaway of a self-jointing screw capsule (with lip). Inside a disinfectant tablet is inserted elastically.

10

Figure 3 according to the invention is an elevation view with a partial cutaway of the base of the removable handle showing the slide or an analogous system in slides the tongue situated above the improved safety urinal.

15

Figure 4 according to the invention is a rear elevation view of the improved safety urinal with a half-cutaway along AB showing the sectional profile of the tab sliding in the slide situated under the handle.

Figure 5 according to the invention is a rear elevation view of the detachable handle showing with dotted lines the section of its slide with the housing for the stub.

20

Figure 6 according to the invention is a casual perspective view on a very reduced scale of the improved safety urinal constituted with three curved rods assembled by welding. Their ends are fitted with tips of flexible material.

08737879-112236
962211-6282E780

As represented in Figure 1, the improved safety urinal (1) illustrates certain elements which comprise its originality. A hole (2) situated above the normal filling level of the improved safety urinal (1) is surmounted by a conduit (3) with its threading (4) established in particular to screw on it a self-jointing lip capsule (8) for plugging it. Its anti-backflow system (5) is screwed so as to be water-tight on the neck of the improved safety urinal (1) to permit turning said urinal in any direction when normally filled without its contents escaping. Its tab (6) permits the slide (12) of the handle to come and snap on in a detachable way and to be positioned by the stub (7) after having been stopped by the stop (13).

As represented in Figure 2, a self-jointing screw capsule (8) intended to be screwed on the conduit (3) and to plug it in a water-tight way with its conical lip (9). A tablet (10) of disinfectant product is housed elastically in its lip to help sanitize the inside of the improved safety urinal (1).

As represented in Figure 3, the detachable handle (11) with its slide (12) is equipped with a stop (13) against which the tap (6) stops positioned by its housing (14) when by sliding the stub (7) penetrates into the latter.

As represented in Figure 4 the improved safety urinal (1) with its anti-backflow system (5) shows the profile of the tab (6) and of the stub (7).

As represented in figure 5, the handle (11) is seen with its slide (12) represented by the dotted lines and its housing (14) for receiving the stub.

As represented in Figure 6, the urinal carrier constituted of 3 rods (16), (17), and (18) judiciously bent, are assembled in 2 points to form a wide open cradle which thus offers an easy access to the prehension notches as well as to the handle (15) of the improved safety urinal (1). The upper branch is curved to form a hook (19) for hanging it. So that the ends of the rods do not cause injury, they are fitted with tips (20) of flexible material. These three rods are preferably of painted or plastic covered iron or of stainless steel.

What is claimed is:

Adk
a1

08737879.112296

5 A urinal of translucent or transparent plastic material with its handles
a screw capsule, the combination being capable of enduring a
sterilization temperature, containing partially in its neck an anti-backflow
system of plastic material able to endure a sterilization temperature,
having approximately the shape of a funnel whose larger opening is attached
directly so as to be water-tight and detachable on the neck of the urinal
10 from which it overhangs and whose smaller opening empties essentially into the
heart of the volume remaining in said urinal, characterized toward the
middle of its top by a system of attaching its handle and above its normal
filling level, approximately toward the opposite end of its neck, a hole
which traverses its wall and is surmounted by a conduit of a cross section
15 which is just enough, surrounded by a threading which channels the
emptying, forms a pouring spout, orients and directs the jet in a precise way
and is plugged with the aid of a plugging system.

2. A urinal according to claim 1, characterized by the fact that the plugging
20 system of the conduit surrounded by a threading having a pitch to the
right is a self-jointing screw capsule with lip with a threading having a

right hand thread pitch.

3. A urinal according to claim 1 and 2, characterized by the fact that the system for plugging the conduit surrounded by a threading having a
5 right hand thread pitch is a screw capsule known as a self-jointing child safety capsule having a right hand thread pitch.

4. A urinal according to claims 1, 2, and 3, characterized by a threading which surrounds the conduit having a left hand thread pitch and a capsule
10 likewise having a left hand thread pitch.

5. A urinal according to the claims 1, 2, 3, and 4, characterized by the fact that the outside contour of these capsules is grooved or contains cut off
15 corners.

6. A urinal according to the claims 1, 2, 3, 4, and 5, characterized by the outside of these capsules being colored red, white, or green.

7. A urinal according to the claims 1, 2, 3, 4, 5, and 6, characterized by the
20 outside of these capsules being of a different color from that of said body of said improved safety urinal.

08737879.112296

- 5
8. A urinal according to the claims 1, 2, 3, 4, 5, 6, and 7, characterized by the external material of these capsules which store photons in a lighted place, and then restores them in the form of luminous rays.
9. A urinal according to the claims 1, 2, 3, 4, 5, 6, 7, and 8, characterized by its lip forming a cavity containing a tablet of perfumed product.
- 10 support a sterilization temperature of 130°C.
11. A urinal according to claim 1, characterized by a gauge introduced by the conduit to the proximity of the end of the anti-backflow system and when it is wetted it triggers an audio alarm.
12. A urinal according to claim 1, characterized by the anti-backflow system having a different color from that of the body of said urinal.
13. A urinal according to claim 1, characterized by the body of said urinal and its anti-backflow system being equipped with a screw system made with a right hand threading.
- 17

08737879-112296
962211-6/8/80

- 5
14. A urinal according to claim 1, characterized by the body of said urinal and its anti-backflow system being equipped with a screw system made with a left hand thread pitch.
- 10
15. A urinal according to claims 1 and 16 characterized by an inclination of the axis of its neck relative to the plane of its base being included between 10 and 30 degrees.
- 15
16. An improved safety urinal according to claim 1, characterized on the top of its body by a tab, a stub, and by its removable handle equipped on its lower part with a slide, a stop, a housing.
- 15
17. A urinal according to claim 1 and 15, characterized by the little bosses coming out on the lower part of its handle against which the figures rest.
- 36
- 20
18. An improved safety urinal according to claim 1, characterized by a fixed and solid handle obtained directly by cutting the mass by the knives of the mold from which there results a double wall which becomes simultaneously a single wall hot welded by pressing of the two parts of the mold judiciously

shaped which upon approaching exert a matrixing effect on said single wall,
increasing the thickness at certain points and reducing it in other points.

19. An improved safety urinal according to claim 1, characterized by its
5 plastic material being grafted with substances of a nature as to render it
antiseptic (and/or) perfumed.

20. A urinal carrier for an improved safety urinal according to claim 1,
characterized by a cradle composed of three rods and judiciously fashioned and assembled,
10 the rod opening its arms widely, the rod being curved to form a hook, the ends of the three
rods which hold the urinal being fitted with tips of a flexible material.

21. An improved safety urinal according to claim 1, characterized by its
removable handle being of a dimension such that it can pass through its neck.

08737879-112295
15

08/737879

ABSTRACT

A safety urinal according to the invention is of transparent or translucent plastic material. It can endure a sterilization temperature of 130°C. It has

- 5 a removable anti-backflow system especially by unscrewing. Relative to the known models, it moreover contains a special "quick emptying" system which in particular dispenses with removal of the anti-backflow for emptying, prevents release of odors when emptying.

08737879.112296

10

PRINTED
AS ORIGINAL

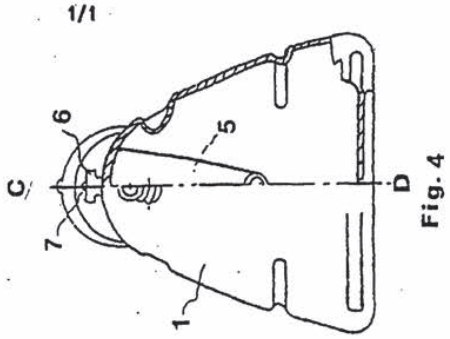
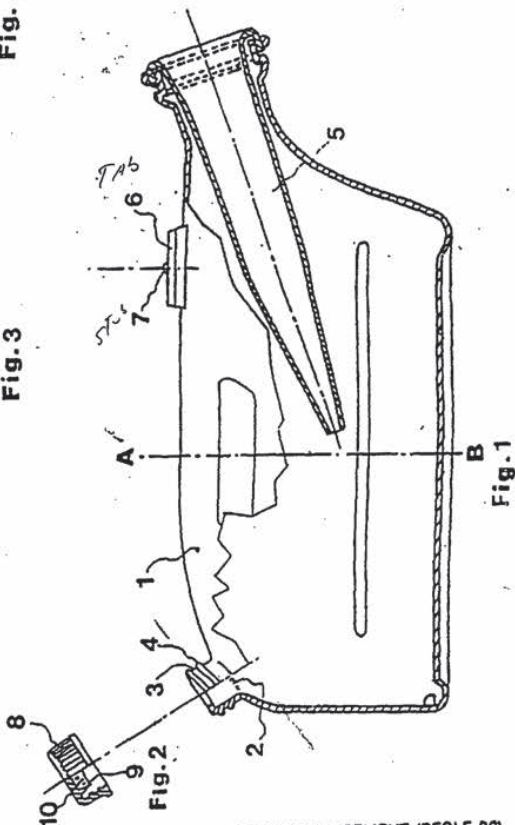
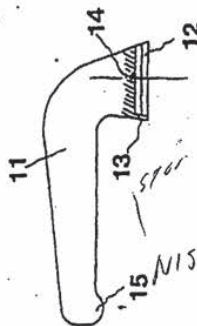
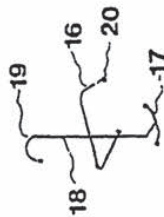
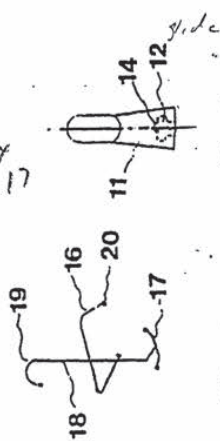
LED

8/737879

WO 96/29972

PCT/FR96/00412

14 2x
15 17



6/80

FEUILLE DE REMPLACEMENT (REGLE 26)

WO 96/29972

08/737879

PCT/FR96/00412

11/1

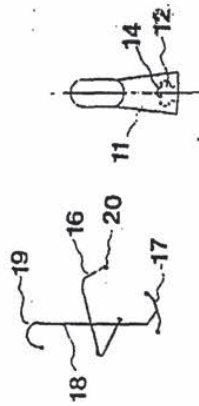


Fig. 5

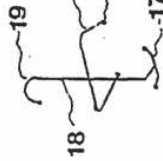


Fig. 6

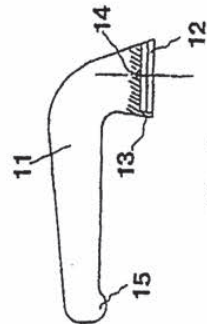


Fig. 3

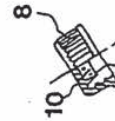


Fig. 2

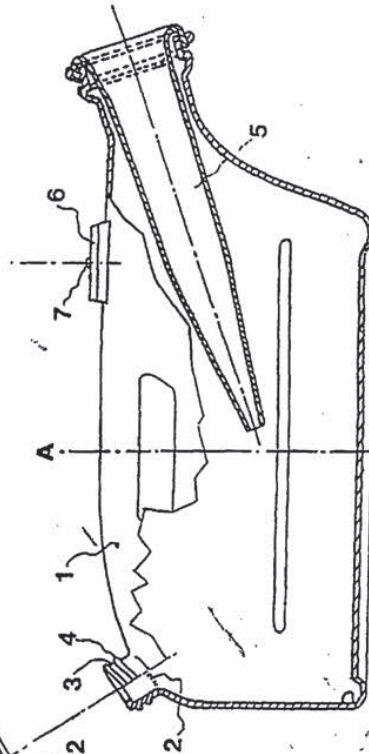


Fig. 1

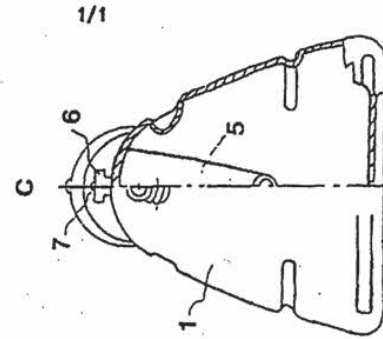


Fig. 4

FEUILLE DE REMPLACEMENT (REGLE 26)

08/737879

WO 96/29972

PCT/FR96/00412

1/1

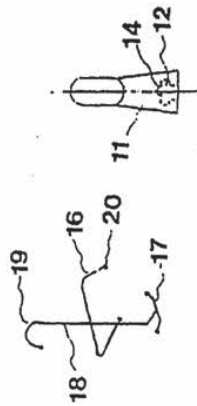


Fig. 5

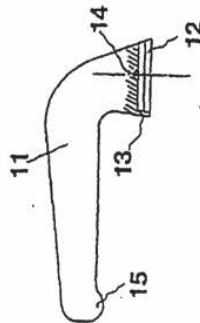


Fig. 6

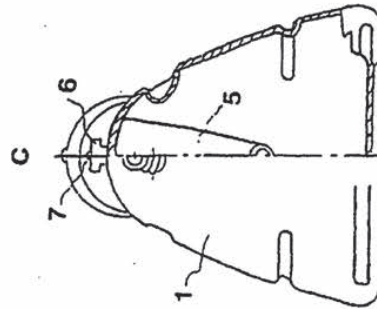


Fig. 4

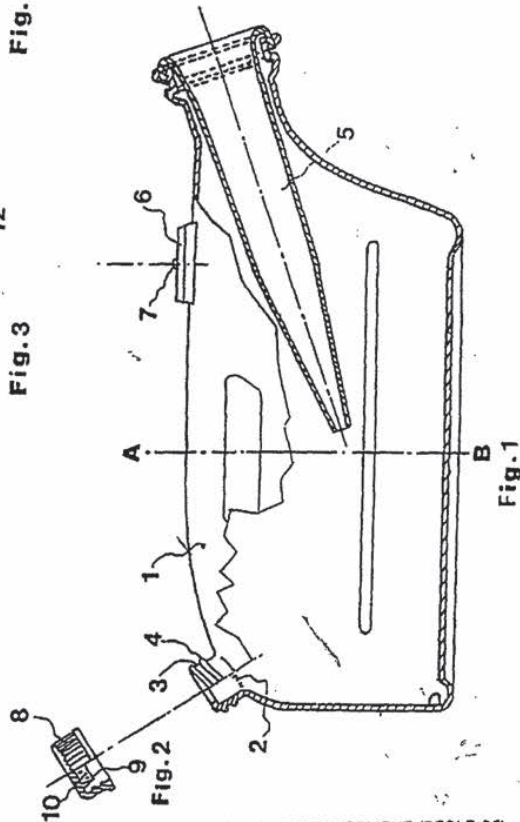


Fig. 1

FEUILLE DE REMPLACEMENT (REGLE 26)

08/737879

WO 96/29972

PCT/FR96/00412

1/1

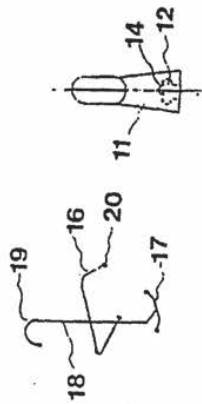


Fig. 5

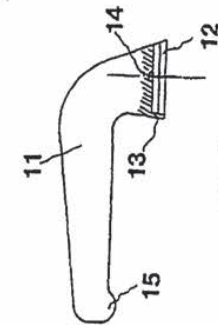


Fig. 6

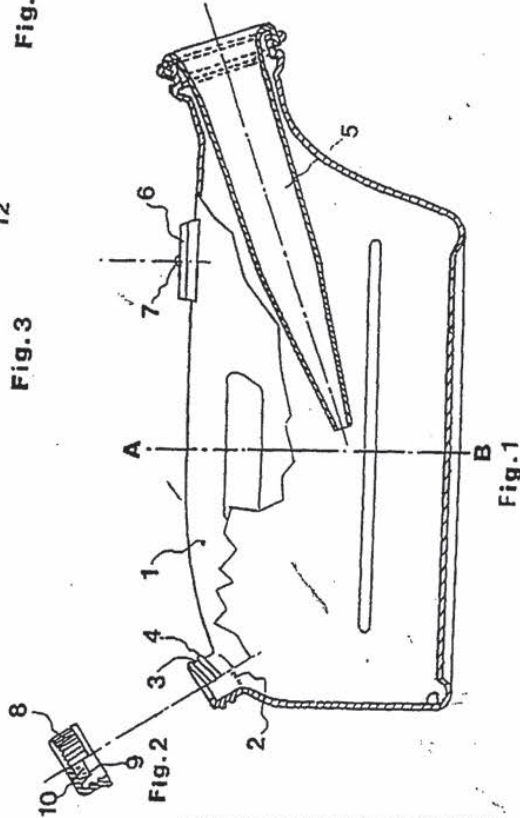


Fig. 1

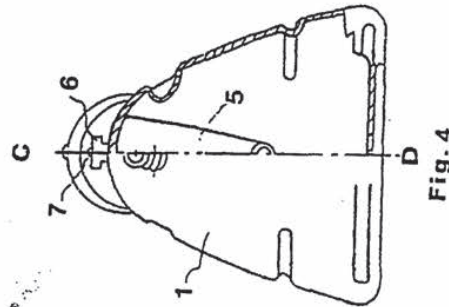


Fig. 4

FEUILLE DE REMPLACEMENT (REGLE 26)

PCT

ORGANISATION MONDIALE DE LA PROPRIÉTÉ INTELLECTUELLE
Bureau international

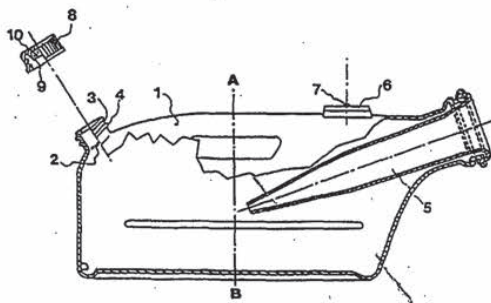


DEMANDE INTERNATIONALE PUBLIÉE EN VERTU DU TRAITE DE COOPERATION EN MATIERE DE BREVETS (PCT)

(51) Classification internationale des brevets ⁶ : A61G 9/00, 7/05	A1	(11) Numéro de publication internationale: WO 96/29972 (43) Date de publication internationale: 3 octobre 1996 (03.10.96)
(21) Numéro de la demande internationale: PCT/FR96/00412 (22) Date de dépôt international: 19 mars 1996 (19.03.96) (30) Données relatives à la priorité: 95/03504 24 mars 1995 (24.03.95) FR (71)(72) Déposant et Inventeur: GOUGET, Jacques [FR/FR]; 3, rue d'Auteuil, F-75016 Paris (FR).	(81) Etats désignés: CA, MX, US, brevet européen (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Publiée Avec rapport de recherche internationale. Avec revendications modifiées.	

(54) Title: IMPROVED SAFETY URINAL

(54) Titre: URINAL DE SECURITE PERFECTIONNEE



(57) Abstract

An autoclavable bed urinal (1) made of transparent or translucent plastic and provided with a backflow preventing device (5) that may be detached using a special sealing screw-thread assembly. The urinal is easy to clean and sterilise and is particularly characterised in that it has a quick emptying system arranged opposite the neck and comprising a hole (2) with a tube (3) extending therefrom and having various closure systems so that advantageously the backflow preventer need not be removed before emptying. Said urinal has a detachable or fixed handle provided using a special technique. The figure shows the male version.

(57) Abrégé

Cet urinal (1) en matière plastique transparente ou translucide, autoclavable, est équipé d'un dispositif anti-reflux (5) amovible à l'aide d'un vissage particulier assurant l'étanchéité. Il est facile à nettoyer et à stériliser. Il a de nombreuses particularités, notamment: à l'opposé de son col, il possède un système de vide-vite comportant un trou (2) surmonté d'un conduit (3) avec différents systèmes de bouchage évitant d'ôter l'anti-reflux pour vidanger, offrant de nombreux avantages. Il est équipé avec une poignée amovible ou avec une poignée fixe obtenue par une technique particulière. La figure représente un modèle pour homme.

UNIQUEMENT A TITRE D'INFORMATION

Codes utilisés pour identifier les Etats parties au PCT, sur les pages de couverture des brochures publiant des demandes internationales en vertu du PCT.

AT	Arménie	GB	Royaume-Uni	MW	Malawi
AT	Autriche	GE	Géorgie	MX	Mexique
AU	Australie	GN	Guinée	NE	Niger
BB	Barbade	GR	Grèce	NL	Pays-Bas
BE	Belgique	HU	Hongrie	NO	Norvège
BF	Burkina Faso	IE	Irlande	NZ	Nouvelle-Zélande
BG	Bulgarie	IT	Italie	PL	Pologne
BJ	Bénin	JP	Japon	PT	Portugal
BR	Bразил	KE	Kenya	RO	Roumanie
BY	Bélarus	KG	Kirghizistan	RU	Fédération de Russie
CA	Canada	KP	République populaire démocratique de Corée	SD	Soudan
CF	République centrafricaine	KR	République de Corée	SE	Suède
CG	Congo	KZ	Kazakhstan	SG	Singapour
CH	Suisse	LI	Liechtenstein	SI	Slovénie
CI	Côte d'Ivoire	LK	Sri Lanka	SK	Slovaquie
CM	Cameroun	LR	Libéria	SN	Sénégal
CN	Chine	LT	Lituanie	SZ	Syaziland
CS	Tchécoslovaquie	LU	Luxembourg	TD	Tchad
CZ	République tchèque	LV	Lettonie	TG	Togo
DE	Allemagne	MC	Monaco	TJ	Tadjikistan
DK	Danemark	MD	République de Moldova	TT	Trinité-et-Tobago
EE	Estonie	MG	Madagascar	UA	Ukraine
ES	Espagne	ML	Mali	UG	Ouganda
FI	Finlande	MN	Mongolie	US	Etats-Unis d'Amérique
FR	France	MR	Mauritanie	UZ	Ouzbékistan
GA	Gabon			VN	Viet Nam

Urinal de sécurité perfectionné

1 Les urinaux de sécurité connus, en matière plastique transparente ou translucide, capables de supporter une température de stérilisation de 130°C, ont un système anti-reflux qui est amovible par dévissage pour permettre le nettoyage de l'ensemble et est indispensable pour les vidanges.

5 L'urinal de sécurité suivant l'invention, est en matière plastique transparente ou translucide. Il est capable de supporter une température de stérilisation de 130°C. Il possède un système anti-reflux amovible notamment par dévissage. Par rapport aux modèles connus, il comporte en plus un système de «vide-vite» particulier qui
10 dispense notamment d'ôter l'anti-reflux pour vidanger, évite des dégagements d'odeurs au moment de la vidange et offre en sus de judicieuses modifications et additions qui se combinent et lui confèrent des avantages nouveaux.

A cet effet et suivant l'invention:

15 La paroi de cet urinal perfectionné comporte un trou situé approximativement vers l'extrémité opposée à son col. Ce trou est positionné au dessus du niveau normal de remplissage. Ce trou est surmonté par un conduit qui canalise la vidange et forme goulot verseur qui oriente et dirige le jet notamment pour pouvoir verser
20 avec précision dans un tube à essai. Ce conduit est agencé à son extrémité qui débouche vers l'extérieur pour recevoir notamment un système d'obturation permettant un bouchage et un débouchage rapide. Le diamètre de ce trou et celui du conduit qui le surmonte sont seulement suffisants pour assurer une vidange assez rapide de cet urinal perfectionné. L'ensemble du trou, du conduit et du
25 système de bouchage constitue le système de « vide-vite » de l'urinal de sécurité perfectionné.

Il évite de sortir le système anti-reflux du col et d'avoir à le manipuler chaque fois qu'il est seulement utile de vider ledit urinal. Un rinçage par le « vide-vite » est possible.

FEUILLE DE REMPLACEMENT (REGLE 26)

1 Avant, avec un urinal, lors de la vidange de son contenu par le large orifice de son col, s'échappait fâcheusement l'atmosphère interne confinée de cet urinal ... vers le manipulateur.

Par contre, avec l'urinal de sécurité perfectionné, lors de sa vidange par le
5 « vide-vite », dont la section interne est judicieusement limitée, le flot de vidange peut facilement en occuper toute la section. Il en résulte qu'il ne reste pas de passage pour l'atmosphère interne de l'urinal perfectionné qui puisse lui permettre de s'échapper pendant une vidange. Ainsi le manipulateur n'est pas incommodé.

10 Lorsque l'urinal de sécurité est immergé dans un bac de nettoyage, l'orifice du « vide-vite » (non bouché) facilite le rinçage de tout l'intérieur de l'urinal perfectionné.

Un raccord de préférence fileté prolongé par un tuyau souple est agencé pour être
15 raccordé au conduit du « vide-vite » dont l'extrémité est dotée d'un filetage extérieur.

L'autre bout du tuyau souple peut être enfoncé dans un siphon de vidange du type utilisé pour recevoir les vidanges des machines à laver ou dans tous autres réceptacles ...

20 Ce dispositif permet une vidange pratique et hygiénique de l'urinal de sécurité perfectionné.

Un raccord analogue avec un tuyau souple branché sur une arrivée d'eau peut être également utilisé pour le rinçage interne de l'urinal de sécurité perfectionné, notamment en milieu hospitalier.

25 Un système de bouchage obture le conduit du « vide-vite » de l'urinal de sécurité perfectionné. Ce système est soit constitué par un simple bouchon introduit dans le conduit, soit par une capsule jointée ou auto-jointante à lèvres, de préférence vissée sur la partie terminale du conduit comportant notamment à cet effet un

1 filetage extérieur. Pour éviter un débouchage intempestif par un alité n'ayant pas
toute sa lucidité, le « vide-vite » dans ce cas est obturé par une capsule dite de
sécurité à vis (jointée ou auto-jointante) qui une fois vissée, nécessite, pour pouvoir
la dévisser, d'exercer en même temps une forte pression généralement axiale. A
5 défaut, le dévissage n'embraye pas. Ces capsules de sécurité à vis, dans ce cas,
émettent alors un bruit de clic clac avertissant de la tentative de débouchage.
Certaines capsules n'émettent pas de bruit lors de la tentative de débouchage.
Un moyen supplémentaire pour éviter les débouchages non désirés est que le pas de
vis des capsules et du conduit au lieu d'être normalement avec un pas à droite, sont
10 avec un pas à gauche.

Pour permettre d'ôter plus facilement le bouchon simple, sa partie supérieure peut
comporter un épaulement circulaire permettant de mieux le saisir. De même les
capsules, pour faciliter leur dévissage et leur revissage, sont dotées sur leur
pourtour de stries ou de pans coupés.

15

Le bouchon simple est réalisé dans une matière souple capable de tenir à 130°C.

C'est à base de silicone souple que peut être fabriqué un tel bouchon pour le
« vide-vite » de l'urinal de sécurité perfectionné. En effet, cette matière, lors des
débouchages et rebouchages successifs, offre l'avantage de bien supporter
20 l'éventuelle agressivité de l'orifice du « vide-vite », et d'accepter une température
de 130°C.

Les capsules à vis sont en matière plastique résistant à 130°C et sont notamment de
la famille des polyoléfines.

25

La couleur de l'obturateur bouchant le « vide-vite » de l'urinal de sécurité
perfectionné est choisie de préférence pour attirer l'attention et de teinte différente
du corps de l'urinal perfectionné. Elle est avantageusement rouge ou blanche pour
permettre de le retrouver facilement et pour s'apercevoir rapidement qu'il est bien

1 mis en place dans l'orifice du « vide-vite ». Une teinte fluorescente convient également.

Les obturateurs ci-avant comportent une matière emmagasinant des photons
5 lorsqu'elle est dans une ambiance lumineuse et les restitue sous forme de lumière lorsqu'elle est dans l'obscurité permettant ainsi de retrouver de nuit son urinal de sécurité perfectionné et cet obturateur lorsqu'il a été momentanément posé à proximité.

Une cavité dans le système d'obturation du « vide-vite » de l'urinal de sécurité
10 perfectionné, débouche vers l'intérieur de son conduit. Cette cavité et son orifice sont judicieusement dimensionnés pour que s'emboîte par exemple élastiquement dedans un petit conteneur percé contenant une pastille volatile de même nature que celles disposées dans les cuvettes des w.c., pour assainir l'atmosphère interne dudit urinal lorsque le « vide-vite » est obturé.

15 Le trou et son conduit permettent d'effectuer des prélèvements dans ledit urinal de sécurité perfectionné et d'introduire des sondes indiquant pH, etc ... Ils conviennent aussi pour introduire et pour fixer une sonde aboutissant à proximité du petit orifice de l'anti-reflux de telle sorte que lorsqu'elle serait mouillée pendant
20 un certain temps, elle établirait un contact électrique déclenchant une alerte sonore prévenant notamment de la nécessité de vidanger.

La couleur de la matière constituant le système anti-reflux de l'urinal de sécurité perfectionné est avantageusement choisie pour qu'elle soit différente de celle
25 constituant le corps dudit urinal. Il en résulte qu'on s'aperçoit extérieurement qu'il s'agit d'une pièce distincte dont une partie dépasse à l'extrémité du col dudit urinal. Ainsi on voit où il faut la saisir pour pouvoir la désolidariser de l'urinal. Sa coloration permet aussi de mieux voir en toutes positions le remplissage éventuel encore possible dans ledit urinal en estimant la distance qui reste entre la petite
30 extrémité de l'anti-reflux et le niveau du contenu.

1 mis en place dans l'orifice du « vide-vite ». Une teinte fluorescente convient également. -

Les obturateurs ci-avant comportent une matière emmagasinant des photons
5 lorsqu'elle est dans une ambiance lumineuse et les restitue sous forme de lumière lorsqu'elle est dans l'obscurité permettant ainsi de retrouver de nuit son urinal de sécurité perfectionné et cet obturateur lorsqu'il a été momentanément posé à proximité.

Une cavité dans le système d'obturation du « vide-vite » de l'urinal de sécurité
10 perfectionné, débouche vers l'intérieur de son conduit. Cette cavité et son orifice sont judicieusement dimensionnés pour que s'emboîte par exemple élastiquement dedans un petit conteneur percé contenant une pastille volatile de même nature que celles disposées dans les cuvettes des w.c., pour assainir l'atmosphère interne dudit urinal lorsque le « vide-vite » est obturé.

15 Le trou et son conduit permettent d'effectuer des prélèvements dans ledit urinal de sécurité perfectionné et d'introduire des sondes indiquant pH, etc ... Ils conviennent aussi pour introduire et pour fixer une sonde aboutissant à proximité du petit orifice de l'anti-reflux de telle sorte que lorsqu'elle serait mouillée pendant
20 un certain temps, elle établirait un contact électrique déclenchant une alerte sonore prévenant notamment de la nécessité de vidanger.

La couleur de la matière constituant le système anti-reflux de l'urinal de sécurité perfectionné est avantageusement choisie pour qu'elle soit différente de celle
25 constituant le corps dudit urinal. Il en résulte qu'on s'aperçoit extérieurement qu'il s'agit d'une pièce distincte dont une partie dépasse à l'extrémité du col dudit urinal. Ainsi on voit où il faut la saisir pour pouvoir la désolidariser de l'urinal. Sa coloration permet aussi de mieux voir en toutes positions le remplissage éventuel encore possible dans ledit urinal en estimant la distance qui reste entre la petite
30 extrémité de l'anti-reflux et le niveau du contenu.

1 Par sécurité, pour éviter des dévissages intempestifs du dispositif anti-reflux par des alités n'ayant pas toute leur lucidité, son vissage au lieu d'être classique avec un pas à droite, est doté d'un pas à gauche.

5 Pour être facile à manipuler et par hygiène, l'urinal perfectionné est avantageusement doté d'une poignée amovible ou fixe. Elle est en matière plastique capable de résister à une température de stérilisation de 130°C. Elle prend naissance vers le milieu du dos de l'urinal de sécurité perfectionné. Pour qu'elle ne glisse pas de la main, sous son extrémité, il existe un petit bossage.

10

Pour rendre moins volumineux l'emballage et plus économique le transport des urinaux de sécurité perfectionné, leurs poignées amovibles sont de dimensions telles qu'elles peuvent franchir les cols desdits urinaux et être logées dans lesdits urinaux pendant leur transport et pour leur stockage.

15

- Cas de la poignée amovible:

Le dos de l'urinal de sécurité perfectionné comporte au moins une languette dont l'axe de symétrie est parallèle à l'axe dudit urinal. Cette languette présente de chaque côté à sa base un décrochement longitudinal. Une
20 coulisse ou un système analogue dotée d'une section en rapport avec celle de ladite languette existe en creux dans la semelle de la poignée. Les deux bords latéraux de ladite coulisse comportent chacun une retenue capable d'enchâsser ladite languette introduite par glissement dans ladite coulisse. Une butée en limite le coulissage. Un téton ou son équivalent situé sur le
25 dessus de ladite languette vient élastiquement se positionner dans un logement creux prévu à cet effet dans ladite coulisse ou à proximité, ou vice versa. La poignée se trouve positionnée tout en restant amovible. Pour une poignée inamovible, le téton et sa contrepartie ont chacun une face verticale rendant l'encliquetage irréversible.

1 - Cas de la poignée fixe:

5 Dans le cas d'une fabrication de l'urinal à partir d'une paraison creuse, ladite paraison est dimensionnée et positionnée pour qu'elle déborde dans le moule au delà de l'empreinte de l'urinal dans la zone correspondant au dos dudit urinal. Les couteaux du moule sont judicieusement disposés pour qu'au delà du contour de l'empreinte de l'urinal de sécurité perfectionné, ils puissent découper au profil de la poignée la paraison aplatie qui déborde, tout en laissant reliée la base de ladite poignée au corps de l'urinal de sécurité perfectionné. Lors de la fermeture du moule, les couteaux
10 découpent la paraison suivant le contour de l'empreinte sauf à l'endroit du pied de la poignée dont ils découpent le contour extérieur tout en écrasant à chaud cette dernière. La poignée est logée dans les deux demi-cavités pas tout à fait assez profondes pour la contenir. Il en résulte une pression à chaud de nature à souder entre elles ses deux parois.

15 Pour rendre plus facilement saisissable cette poignée plate, les demi-cavités dans le moule formant le logement de cette poignée présentent à cet effet en certains points des différences symétriques de profondeur de nature à presser la matière plastique issue de la paraison pour la faire refluer vers d'autres points de ces demi-cavités symétriquement plus creux et ainsi
20 épaissir la poignée en certains points en ayant réalisé de la sorte un véritable matriçage à chaud pour faire refluer la matière plastique des points moins creux vers des points plus creux.

25 Par ce procédé de matriçage à chaud, on peut aussi déformer la poignée sur la partie prévue pour la saisir en y créant notamment des ondulations pour augmenter son encombrement.

30 Qu'il s'agisse desdites poignées amovibles ou fixes, la technique qui consisterait à en obtenir par soufflage serait de nature à poser des problèmes d'étanchéité dans le cas de fabrications faites en série.

1 Un antiseptique, parfumé ou non, est greffé par hygiène dans la matière constituant le corps de l'urinal perfectionné, dans celle de sa poignée et dans celle de son système anti-reflux, ainsi que dans celle de son bouchage.

5 Bouchons, capsules, poignées et anti-reflux sont d'une densité telle qu'en cas de chute dans l'eau, ils flottent et ainsi sont facilement récupérables.

Pour rendre encore plus pratique l'usage de l'urinal de sécurité perfectionné, un porte-urinal qui s'accroche sur le côté du lit par une sorte de crochet est établi pour
10 tenir à disposition ledit urinal qui ainsi demeure à portée de main de l'alié.

Ce porte-urinal est essentiellement constitué par seulement trois branches stérilisables à 130°C convenablement courbées formant une cage ouverte dont les éléments sont réunis seulement en deux points éventuellement par soudure.

15 L'ensemble peut également être réalisé d'une seule pièce en matière plastique par moulage.

Ce porte-urinal constitue une sorte de berceau ouvert dans lequel repose l'urinal de sécurité perfectionné. A cet effet, sa forme et ses dimensions sont spécialement établies pour recevoir ledit urinal et le maintenir latéralement en position verticale
20 (col en l'air).

Il est suffisamment ouvert sur le devant pour laisser facilement accessibles les encoches de saisissement et/ou la poignée dudit urinal. Pour que les extrémités des tiges qui le constituent ne soient pas blessantes, elles sont revêtues d'embouts en matière souple. Sa grande simplicité rend peu onéreuse sa fabrication en série et
25 facilite son entretien et sa désinfection.

1 Des modes de réalisation de l'invention sont décrits ci-après à titres d'exemples non limitatifs, avec références aux figures des dessins annexés dans lesquels:

la figure 1 selon l'invention est une vue en élévation avec coupe partielle suivant
5 CD de l'urinal de sécurité perfectionné illustrant le principe de l'anti-reflux dévissable dans le col, du «vide-vite» avec son goulot fileté offrant une section interne relativement limitée pour la vidange, de la protubérance formant languette à enchâsser de façon amovible dans la coulisse ou un système analogue situé dans la semelle de la poignée.

10 La figure 2 selon l'invention est une vue en élévation avec demi-coupe d'une capsule à vis auto-jointante (avec lèvres). Intérieurement est enchâssée élastiquement une pastille désinfectante.

15 La figure 3 selon l'invention est une vue en élévation avec coupe partielle de la base de la poignée amovible montrant la coulisse ou un système analogue dans laquelle glisse la languette située sur le dessus de l'urinal de sécurité perfectionné.

La figure 4 selon l'invention est une vue d'arrière en élévation de l'urinal de
20 sécurité perfectionné avec demi-coupe suivant AB montrant le profil de la section de la languette glissant dans la coulisse située sous la poignée.

La figure 5 selon l'invention est une vue d'arrière en élévation de la poignée
25 amovible laissant apercevoir en pointillés la section de sa coulisse avec le logement pour le téton.

La figure 6 selon l'invention est une vue en perspective cavalière à échelle très
réduite du porte-urinal de sécurité perfectionné constitué avec trois tiges courbées
assemblées par soudure. Leurs extrémités sont garnies d'embouts en matière
30 souple.

1 - Tel que représenté sur la figure 1, l'urinal de sécurité perfectionné (1) illustre certains éléments qui font son originalité. Un trou (2) situé au dessus du niveau normal de remplissage de l'urinal de sécurité perfectionné (1) est surmonté par un conduit (3) avec son filetage (4) établi notamment pour y visser une capsule auto-
5 jointante à lèvre (8) pour le boucher. Son anti-reflux (5) est vissé de façon étanche sur le col de l'urinal de sécurité perfectionné (1) pour permettre de retourner en tous sens ledit urinal normalement rempli, sans que son contenu ne s'échappe. Sa languette (6) permet à la coulisse (12) de la poignée de venir s'y agripper de façon amovible et d'être positionnée par le téton (7) après avoir été arrêtée par la
10 butée (13).

- Telle que représentée sur la figure 2, une capsule auto-jointante à vis (8), destinée à être vissée sur le conduit (3) et à l'obturer de façon étanche avec sa lèvre conique (9). Une pastille (10) de produit désinfectant est enchâssée élastiquement dans sa
15 lèvre pour dépolluer l'intérieur de l'urinal de sécurité perfectionné (1).

- Telle que représentée sur la figure 3, la poignée amovible (11) avec sa coulisse (12) est dotée d'une butée (13) contre laquelle s'arrête la languette (6) positionnée par son logement (14) lorsqu'en glissant le téton (7) pénètre dans ce dernier.

20 - Tel que représenté sur la figure 4 l'urinal de sécurité perfectionné (1) avec son anti-reflux (5), montre le profil de la languette (6) et du téton (7).

- Telle que représentée sur la figure 5, on voit la poignée (11) avec en pointillés sa
25 coulisse (12) et son logement (14) pour recevoir le téton (7).

- 1 - Tel que représenté sur la figure 6, le porte-urinal constitué de 3 tiges (16), (17) et
(18) judicieusement tordues, sont assemblées en 2 points pour former un berceau
largement ouvert qui ainsi offre un accès aisé aux encoches de préhension ainsi qu'à
la poignée (15) de l'urinal de sécurité perfectionné (1). La branche supérieure est
5 recourbée pour former un crochet (19) pour le suspendre. Pour que les extrémités
des tiges ne soient pas blessantes, elles sont revêtues d'embouts (20) en matière
souple. Ces 3 tiges sont de préférence en fer peint ou plastifié ou en acier inox.

REVENDICATIONS

- 1 1/ Urinal (1) en matière plastique transparente ou translucide capable de
supporter une température de stérilisation de 130°C contenant partiellement
dans son col un système anti-reflux (5) en matière plastique capable de supporter
une température de stérilisation de 130°C ayant approximativement la forme d'un
5 entonnoir dont le grand orifice est assemblé de façon étanche et amovible sur
le col de l'urinal (1) duquel il dépasse et dont le petit orifice débouche
sensiblement au coeur du volume restant dans ledit urinal (1) caractérisé par le fait
qu'il comporte vers le milieu de son dessus une poignée, et au dessus de son niveau
normal de remplissage et approximativement vers l'extrémité opposée à son col, un
10 trou (2) qui traverse sa paroi et est surmonté par un conduit (3) de section limitée
ceinturé par un filetage (4) qui canalise la vidange, forme goulot verseur, oriente et
dirige le jet de façon précise et se rebouche à l'aide d'un système de bouchage.
- 15 2/ Urinal suivant la revendication 1, caractérisé par le fait que le système de bouchage
est une capsule à vis.
- 3/ Urinal suivant la revendication 1, caractérisé par le fait que le système de bouchage
du trou (2) est un bouchon quelconque notamment en silicone.
- 20 4/ Urinal suivant la revendication 1, caractérisé par le fait que le système de bouchage
est une capsule à vis de sécurité.
- 5/ Urinal suivant les revendications 2 et 4 caractérisé par le fait que lesdites capsules à
vis sont jointées.
- 25 6/ Urinal suivant les revendications 2 et 4 caractérisé par le fait que lesdites capsules à
vis sont auto-jointantes.

- 1 7/ Urinal suivant l'une quelconque des revendications 2, 4, 5 et 6 caractérisé par le fait que le pas de vis de ces capsules est un pas à gauche.
- 5 8/ Urinal suivant l'une quelconque des revendications 2, 4, 5, 6 et 7 caractérisé par le fait que l'extérieur de ces capsules est strié ou comporte des pans coupés.
- 9/ Urinal suivant l'une quelconque des revendications 2, 4, 5, 6, 7 et 8 caractérisé par le fait que ces capsules sont de préférence rouge ou blanche.
- 10 10/ Urinal suivant l'une quelconque des revendications 2, 4, 5, 6, 7, 8 et 9 caractérisé par le fait que ces capsules sont d'une couleur différente de celle dudit urinal de sécurité perfectionné.
- 15 11/ Urinal suivant l'une quelconque des revendications 2, 4, 5, 6, 7, 8, 9 et 10 caractérisé par le fait que la matière plastique qui compose les capsules emmagasine des photons dans un lieu éclairé, et les restitue sous forme de rayons lumineux.
- 20 12/ Urinal suivant l'une quelconque des revendications 2, 4, 5, 6, 7, 8, 9, 10 et 11 caractérisé par le fait que ces capsules comportent intérieurement une cavité contenant un produit désinfectant et / ou parfumé.
- 25 13/ Urinal suivant la revendication 1 caractérisé par le fait qu'il comporte une jauge introduite par le vide-vite jusqu'à proximité de l'extrémité de l'anti-reflux et qui lorsqu'elle est mouillée déclenche une alerte sonore.
- 14/ Urinal suivant la revendication 1 caractérisé par le fait que l'anti-reflux a une couleur différente de celle de l'urinal.

- 1 15/ Urinal suivant la revendication 14 caractérisé par le fait que l'anti-reflux possède un système de vissage réalisé avec un pas à gauche.
- 5 16/ Urinal de sécurité perfectionné suivant l'une quelconque des revendications précédentes caractérisé par le fait qu'il possède une languette (6), un téton (7) et qu'il est équipé avec une poignée amovible qui comporte une coulisse (12), une butée (13), un logement (14) et un bossage (15).
- 10 17/ Urinal de sécurité perfectionné suivant l'une quelconque des revendications 1 à 15 caractérisé par le fait qu'il possède une poignée fixe obtenue directement par découpage des couteaux du moules et dont la double paroi ne fait plus qu'une soudée à chaud par pressage du moule, que le moule en se fermant peut exercer un effet de matriçage sur ladite poignée en accroître l'épaisseur en certains points par des creux plus ou moins importants des demi-cavités dans lesquelles elle est
- 15 accueillie.
- 20 18/ Urinal de sécurité perfectionné suivant l'une quelconque des revendications précédentes caractérisé par le fait que sa matière plastique a été greffée avec des substances de nature à le rendre antiseptique et / ou parfumé.
- 25 19/ Porte-urinal pour un urinal de sécurité perfectionné suivant l'une quelconque des revendications précédentes caractérisé par le fait qu'il forme un berceau composé de trois tiges (16), (17) et (18), la tige (16) ouvrant largement ses bras, la tige (19) étant recourbée pour former un crochet et les extrémités des trois tiges sont
- 30 garnies d'embouts en matière souple.
- 20/ Urinal de sécurité perfectionné suivant la revendication 15 caractérisé par le fait que sa poignée amovible est de dimension telle qu'elle peut franchir le col dudit urinal.

FEUILLE DE REMPLACEMENT (REGLE 26)

REVENDEICATIONS MODIFIEES

[reçues par le Bureau international le 9 août 1996 (09.08.96);
revendications 1-20 remplacées par les revendications
1-21 modifiées (4 pages)]

- 1 1/ Urinal (1) en matière plastique transparente ou translucide avec sa poignée (11),
une capsule à vis, l'ensemble capable de supporter une température de stérilisation,
contenant partiellement dans son col un système anti-reflux (5) en matière plastique
capable également de supporter une température de stérilisation, ayant
5 approximativement la forme d'un entonnoir dont le grand orifice est fixé
directement de façon étanche et amovible sur le col de l'urinal (1) duquel il dépasse
et dont le petit orifice débouche sensiblement au coeur du volume restant dans ledit
urinal (1) caractérisé vers le milieu de son dessus par un système de fixation de sa
poignée (11), et au dessus de son niveau normal de remplissage,
10 approximativement vers l'extrémité opposée à son col, un trou (2) qui traverse sa
paroi et est surmonté par un conduit (3) de section juste suffisante, ceinturé par un
filetage (4) qui canalise la vidange, forme goulot verseur, oriente et dirige le jet de
façon précise et s'obture à l'aide d'un système de bouchage.
- 15 2/ Urinal suivant la revendication 1, caractérisé par le fait que le système de bouchage
du conduit (3) ceinturé par un filetage (4) ayant un pas à droite est une capsule à
vis auto-jointant avec lèvres (9) avec un filetage ayant un pas de vis à droite.
- 20 3/ Urinal suivant revendications 1 et 2, caractérisé par le fait que le système de
bouchage du conduit (3) ceinturé par un filetage (4) ayant un pas de vis à droite est
une capsule à vis dite de sécurité enfant auto-jointante ayant un pas
de vis à droite.
- 25 4/ Urinal suivant revendications 1, 2 et 3 caractérisé par un filetage (4) qui ceinture le
conduit (3) ayant un pas de vis à gauche et une capsule ayant également un filetage
avec un pas de vis à gauche.

FEUILLE MODIFIEE (ARTICLE 19)

- 1 5/ Urinal suivant revendications 1, 2, 3 et 4 caractérisé par le fait que le contour extérieur de ces capsules est strié ou comporte des pans coupés (8).
- 5 6/ Urinal suivant revendications 1, 2, 3, 4 et 5 caractérisé par l'extérieur de ces capsules de couleur rouge, blanche ou verte.
- 7/ Urinal suivant revendications 1, 2, 3, 4, 5 et 6 caractérisé par l'extérieur de ces capsules d'une couleur différente de celle du corps (1) dudit urinal de sécurité perfectionné.
- 10 8/ Urinal suivant revendications 1, 2, 3, 4, 5, 6 et 7 caractérisé par la matière extérieure de ces capsules qui emmagasine des photons dans un lieu éclairé, et les restitue ensuite sous forme de rayons lumineux.
- 15 9/ Urinal suivant revendications 1, 2, 3, 4, 5, 6, 7 et 8 caractérisé par sa lèvre (9) formant une cavité contenant une pastille (10) de produit parfumé.
- 10/ Urinal suivant revendication 1 caractérisé par sa matière plastique capable de supporter une température de stérilisation de 130°C.
- 20 11/ Urinal suivant revendication 1 caractérisé par une jauge introduite par le conduit (3) jusqu'à proximité de l'extrémité de l'anti-reflux (5) et qui lorsqu'elle est mouillée déclenche une alerte sonore.
- 25 12/ Urinal suivant revendication 1 caractérisé par l'anti-reflux (5) de couleur différente de celle du corps (1) dudit urinal.

- 1 13/ Urinal suivant revendication 1 caractérisé par le corps dudit urinal (1) et son anti-reflux (5) dotés d'un système de vissage réalisé avec un pas à droite.
- 14/ Urinal suivant revendication 1 caractérisé par le corps dudit urinal (1) et son
5 anti-reflux (5) dotés d'un système de vissage réalisé avec un pas à gauche.
- 15/ Urinal suivant revendications 1 et 16 caractérisé par une inclinaison de l'axe de son col par rapport au plan de sa semelle comprise entre 10 et 30 degrés.
- 10 16/ Urinal de sécurité perfectionné, suivant revendication 1 caractérisé sur le dessus de son corps par une languette (6), un téton (7) et par sa poignée amovible dotée à sa partie inférieure d'une coulisse (12), d'une butée (13) et d'un logement (14).
- 15 17/ Urinal suivant revendication 1 et 16 caractérisé par le ou les petits bossages (15) faisant saillie sur la partie inférieure de sa poignée (11) contre laquelle porte les doigts.
- 18/ Urinal de sécurité perfectionné suivant revendication 1 caractérisé par une poignée fixe et solidaire obtenue directement par découpage de la paraison par les
20 couteaux du moule dont il résulte une double paroi devenue simultanément une paroi unique soudée à chaud par pressage des deux parties du moule judicieusement conformées qui en se rapprochant exercent un effet de matriçage sur ladite paroi unique, en accroît l'épaisseur en certains points et la diminue en d'autres points.
- 25 19/ Urinal de sécurité perfectionné suivant revendication 1 caractérisé par sa matière plastique greffée avec des substances de nature à le rendre antiseptique et / ou parfumé.

FEUILLE MODIFIEE (ARTICLE 19)

- 1 20/ Porte-urinal pour urinal de sécurité perfectionné suivant revendication 1
caractérisé par un berceau composé de trois tiges (16), (17) et (18) judicieusement
façonnées et assemblées, la tige (16) ouvrant largement ses bras, la tige (19)
recourbée formant crochet, les extrémités des trois tiges qui maintiennent l'urinal
5 étant garnies d'embouts en matière souple.
- 21/ Urinal de sécurité perfectionné suivant revendication 1 caractérisé par sa poignée
amovible de dimension telle qu'elle passe au travers de son col.

FEUILLE MODIFIEE (ARTICLE 19)

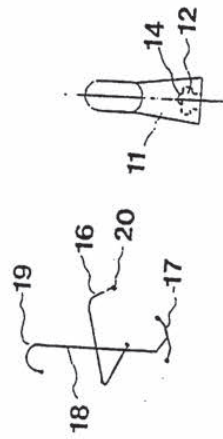


Fig. 5

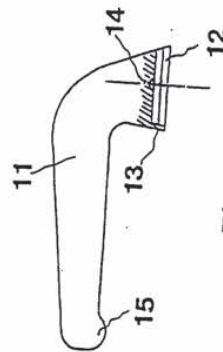


Fig. 6

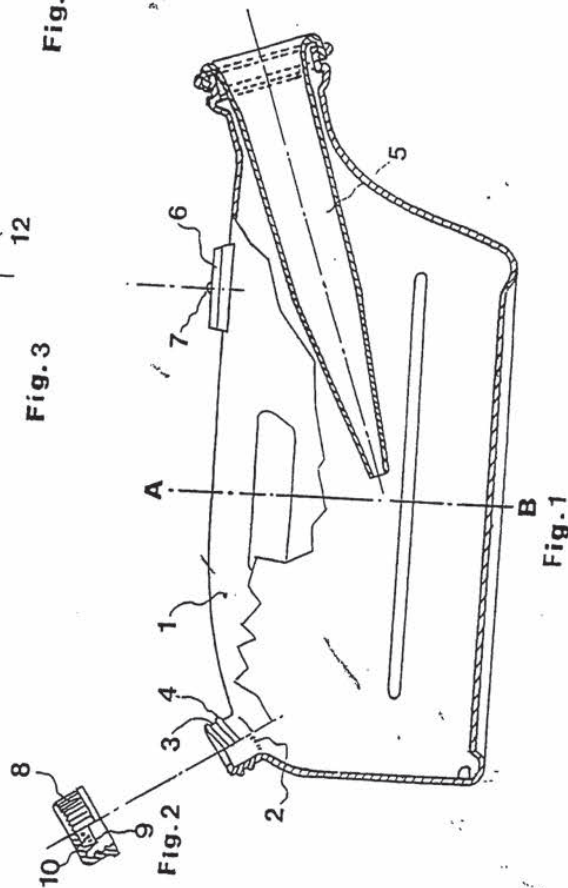


Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

FEUILLE DE REMPLACEMENT (REGLE 26)

Linguex, Inc.

21 Rec'd PCT/PTO 22 NOV 1996

08/737879

LINGUEX, INC.

TRANSLATION CERTIFICATION

This is to certify that the translation/editing of the attached documents are to the best of our knowledge and ability, a true and accurate translation of the original text delivered to us by our client Kilpatrick & Cody. The original documents were to be translated from French into English, and said translation was completed and delivered to the client on October 31, 1996.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the documents attached herein.

Linguex hereby agrees to keep the contents of this translation confidential according to the ethical and legal standards of the translating profession. Linguex furthermore agrees not to discuss, evaluate, transfer, distribute, or reproduce any material related to this assignment with any person(s), or any other parties related to this assignment, other than the direct representative of the client, as this would constitute a violation of our agreement. Linguex is liable for damages pertaining to the items covered by this statement.

Date: October 31, 1996

WITNESSED ON BEHALF OF LINGUEX :

E. Nesterevko
Ms. Eugenia Nesterevko

District of Columbia) ss:

BE IT KNOWN, that on the 31st day of October 1996 before me, a Notary Public in and for the District of Columbia, duly commissioned and sworn, personally came and appeared Ms. Sylvie Clements who acknowledged that she executed the within instrument.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed my seal of office, the day and year above written.

Handiffi
NOTARY PUBLIC
MY COMMISSION EXPIRES ON APRIL 30, 1999

Page #1

21 NOV 1996

08/737879

PCT

5 Request

The undersigned requests that the international application be processed according to the Cooperation Treaty in matters of patents.

Reserved for the receiving office

10 International application number: PCT/FR96/00412

International filing date:

Name of receiving office and "PCT international application"

Reference to the file of the applicant or of the proxy (optional)

(Maximum of 12 characters).

15

Space #I. Title of the invention.

Improved safety urinal.

Space #II. Applicant

20 Name and address (Surname followed by given name; for a corporate personage, complete official corporate style. The address should include the zip code and the name of the country.)

Couget, Jacques, 3 Auteuil Street, Paris 75016, France.

[x] This person is also the inventor.

Telephone number: (331) 4258-5784

25 Fax number: (331) 4524-4501

Telex number:

Nationality (name of the country): France

Residence (name of the country): France

This person is applying for:

30 [x] All of the designated countries.

[] All of the designated countries except the United States of America.

[] The United States of America only.

[] The countries indicated in the supplementary space.

Space #III. Other applicant(s) or other inventor(s)

35 Name and address (Surname followed by given name; for a corporate personage, complete official corporate style. The address should include the zip code and the name of the country.)

This person is:

[] Applicant only.

40 [] Applicant and inventor.

[] Inventor only.

(If this box is checked, do not fill out the rest.)

Nationality (name of the country):

Residence (name of the country):

This person is applying for:

- ☐ All of the designated countries.
- 5 ☐ All of the designated countries except the United States of America.
- ☐ The United States of America only.
- ☐ The countries indicated in the supplementary space.
- ☐ Other applicants or inventors are indicated on an enclosed sheet.

- 10 Space #IV. Common representative or proxy, or address for correspondence.

The person whose identity is given below is/was appointed to act in the name of the applicant(s) before the appropriate international authorities, as:

- ☐ proxy
- ☐ mutual representative.

- 15 Name and address (Surname followed by given name; for a corporate personage, complete official corporate style. The address should include the zip code and the name of the country.)

Telephone number:

Fax number:

- 20 Telex number:

☐ Check this box when no proxy nor mutual representative is/was appointed and the space above is used to indicate a special address to which correspondence should be sent.

Form PCT/RO/101 (first page) (3 July 1994, reprinted July 1995).

- 25 See the notes related to the application form.

Page #2

- 30 Space #V. Designation of countries

The [illeg.]

Regional patent

- ☐ AP ARIPO patent: KE Kenya, MW Malawi, SD Sudan, SZ Swaziland, UG Uganda, and any other country which is a contracting country of the Harare Accord and of the PCT.

- ☒ EP European patent: AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, DE Germany, DK Denmark, ES Spain, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Holland, PT Portugal, SE Sweden, and any other country which is a contracting country in the Convention on European patents and of the PCT.

☐ OA OAPI patent: BF Burkino Faso, BJ Benin, CF Central African Republic, CG Congo, CI Ivory Coast, CM Cameroon, GA Gabon, GN Guinea, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other country which

is a member country of the OAPI and a contracting country of the PCT (if another form of protection or of processing is desired, so specify on the dotted line):

5 National patent (if another form of protection or of processing is desired, so specify on the dotted line):

- ☐ AM Armenia
- ☐ AT Austria
- ☐ AU Australia
- 10 ☐ BB Barbados
- ☐ BG Bulgaria
- ☐ BR Brazil
- ☐ BY Byelorussia
- ☒ CA Canada
- 15 ☐ CH and LI Switzerland and Liechtenstein
- ☐ CN China
- ☐ CZ Czechoslovak Republic
- ☐ DE Germany
- ☐ DK Denmark
- 20 ☐ EE Estonia
- ☐ ES Spain
- ☐ FI Finland
- ☐ GB United Kingdom
- ☐ GE Georgia
- 25 ☐ HU Hungary
- ☐ IS Iceland
- ☐ JP Japan
- ☐ KE Kenya
- ☐ KG Kirghizistan
- 30 ☐ KP Peoples Democratic Republic of Korea [North Korea]
- ☐ KR Republic of Korea
- ☐ KZ Kazakhstan
- ☐ LK Sri Lanka
- ☐ LR Liberia
- 35 ☐ LT Lithuania
- ☐ LU Luxembourg
- ☐ LV Latvia
- ☐ MD Republic of Moldavia
- ☐ MG Madagascar
- 40 ☐ MN Mongolia
- ☐ MW Malawi
- ☒ MX Mexico
- ☐ NO Norway
- ☐ NZ New Zealand

- ☐ PL Poland
☐ PT Portugal
☐ RO Romania
5 ☐ RU Russian Federation
☐ SD Sudan
☐ SE Sweden
☐ SG Singapore
☐ SI Slovenia
10 ☐ SK Slovakia
☐ TJ Tajikistan
☐ TM Turkmenistan
☐ TT Trinity and Tobago
☐ UA Ukraine
15 ☐ UG Uganda
☒ US United States of America
☐ UZ Uzbekistan
☐ VN Vietnam
☐ Boxes reserved for the designation (for national patent purposes) of
20 countries which become parties to the PCT after the publication of this sheet:
☐
☐
☐
☐
25 Besides the designations made above, the applicant also makes according to Rule
4.9.b all of the designations which will be authorized by virtue of the PCT
except the designation of:
The applicant declares that these additional designations are made subject to
confirmation and that any designation which is not confirmed within a deadline
30 of 15 months counted from the priority date must be considered to be withdrawn
by the applicant upon expiration of this deadline. (To confirm a designation,
it is necessary to file a declaration containing the declaration and to pay the
fees of the designation and confirmation. The confirmation must arrive in the
receiving office within the deadline of 15 months).
35 Form PCT/RO/101 (second sheet) (July 1995)
See the notes related to the application form.
- Page #3
40 Space #VI. Priority claim
Other priority claims are indicated in the supplementary space: ☐
Country (in which or for which the application has been filed)
(1) France
Filing date ([illeg.])

3-24-95

24 March 1995

Application #9503564

- 5 Filing office (only if it involves a regional or ... application)

Check the box below if the certified copy of the application ... should be issued by the office for purposes of this international application, is the receiving office (a fee may be required).

- 10 ☒ The receiving office is asked to prepare and to forward to the International Office, a certified copy of the former application(s) indicated above the point(s): (1)

Space #VII. Administration responsible for the international patent search
Choice of the administration responsible for the international patent search (ISA)

- 15 (If several administrations responsible for the international patent search have jurisdiction to conduct the international patent search, indicate the administration chosen, the two letter code may be used): ISA/
Former search. Fill out if a search (international, of the international type
20 ...) was already done by the administration responsible for the international patent search or requested by this administration and whether this administration is now asked to substantiate the international search to the extent possible, on the results of this former search. To permit identification of this search or of this search request, give the information
25 requested below for the pertinent patent application (...) or for the search request:

Country (or regional office) - Date (day, month, year) - Number:

Space #VIII. Summary remittance advice

This international application includes the following pages:

- 30 1. Request - 3 pages
2. Description - 10 pages
3. Patent claims - 3 pages
4. Summary - 1 page
5. Drawings - 1 page
35 Total: 18 pages

The items checked below are enclosed with the present international application:

- 40 1. ☐ Signed separate power of attorney.
2. ☐ Copy of the general power of attorney.
3. ☐ Explanation of the absence of a signature.
4. ☐ Priority document(s) (Indicate in spate #VI on the point(s):
5. ☐ Fee calculation sheet.

- 6. ☐ Separate instructions concerning micro-organisms filed.
- 7. ☐ Sequence listing of nucleotides or amino acids (floppy disk).
- 8. ☐ Other items (specify):

5

Figure #-- of the drawings (where applicable) is proposed for publication with the abstract.

Space #IX. Applicant's or proxy's signature

- 10 Beside each signature indicate the name of the signatory and if it does not appear clearly upon reading of the application, in what capacity the signatory signs.

Jacques Gouget [initialed]

15

Reserved for the receiving office

1. Actual date of receiving the documentation supposed to constitute the international application:

2. Drawings received:

20

Not received:

3. Actual date of receipt, corrected by reason of subsequent reception, but within the deadlines, of documents or drawings supplementing what is supposed to constitute the international application:

4. Date of receipt, within the deadlines, of corrections requested according to

25

Article 11.2 of the PCT:

5. Administration responsible for the international patent search indicated by the applicant: ISA/

6. Forwarding of the search copy deferred until payment of the search fee.

Reserved for the international office

30

Date of receipt of the original copy by the International office:

BEST COPY

COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY
(Includes Reference to PCT International Applications)

ATTORNEY'S DOCKET NUMBER
GOU0001-PCT

As a below named inventor, I hereby declare that:
My residence, post office address and citizenship are as stated below next to my name.
I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

IMPROVED SAFETY URINAL

The present invention, which constitutes the subject matter of the above entitled application, is described as follows:

1. The present invention is a

2. The present invention is a

3. The present invention is a

4. The present invention is a

5. The present invention is a

6. The present invention is a

7. The present invention is a

WO 96/29978

March 19, 1996

August 03, 1996

8. The present invention is a

9. The present invention is a

10. The present invention is a

11. The present invention is a

12. The present invention is a

13. The present invention is a

14. The present invention is a

15. The present invention is a

16. The present invention is a

17. The present invention is a

18. The present invention is a

19. The present invention is a

20. The present invention is a

08737879-112296

087379-1120E

88 Rec'd PCT/PTC 22 NOV 1996
08/737879

GOU0001-PCT

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF
JACQUES GOUGET

SERIAL NUMBER: UNKNOWN

FILED: HERewith

U.S. NATIONAL PHASE OF
PCT/FR96/00412

INTERNATIONAL FILING DATE:
19 MARCH 1996

FOR: IMPROVED SAFETY URINAL

#4/IDS
Dawn Brewer
5/27/97

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner For Patents
Washington, D.C. 20231

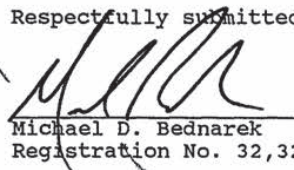
Sir:

Applicant wishes to make of record the disclosure documents listed on the attached Form PTO-1449, which are believed to be the most relevant known to applicant concerning the invention as claimed in the application identified above. Copies of the references are enclosed herewith.

The listed references were cited in the International Search Report on applicants' international patent application. This Information Disclosure Statement is being filed concurrently with the U.S. national phase application.

Respectfully submitted,

By:


Michael D. Bednarek
Registration No. 32,329

KILPATRICK & CODY L.L.P.
Suite 800
700 13th Street, N.W.
Washington, D.C. 20005
(202) 508-5800
Dated: November 22, 1996

OMB No. 0651-0011 (12/31/86)

PAGE OF

08/737879

INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Atty. Docket No. GOU0001-PCT		Serial No. New Application		
				Applicant : JACQUES GOUGET				
				Filing Date Herewith		Group Unknown		
U.S. PATENT DOCUMENTS								
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
<i>mw</i>		1,343,363	06/15/20	Hall			09/08/1919	
<i>hw</i>		2,358,850	09/26/44	Chenault	4	110	06/26/42	
<i>hw</i>		3,163,869	01/05/65	Johnson	4	110	02/03/64	
<i>hw</i>		3,927,426	12/23/75	Geddes	4	110	03/03/75	
<i>mw</i>		4,696,067	09/29/87	Woodward	4	144	09/29/86	
<i>DC</i>		4,736,920	04/12/88	Omessi	248	311	02/25/86	
FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
<i>mw</i>		1,393	11/11/99	Great Britian			X	
<i>hw</i>		578,214	09/20/24	France				X
<i>mw</i>		1,575,606	07/25/69	France	A61G			X
<i>mw</i>		92 10 557	10/08/92	Germany	A61G			X
<i>hw</i>		0 526 676 A1	02/10/93	France	A61G	9/00		X
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Page, Etc.)								
EXAMINER <i>9/27</i>				DATE CONSIDERED <i>7/29/97</i>				
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

Form PTO-FB-A820
(also form PTO-1449)

Patent and Trademark Office-U.S. DEPARTMENT OF COMMERCE

999999 MST 36822 1

Applicant or Patentee: Jacques GOU
Serial or Patent No.: New Application Attorney: GOU0001-PCT
Filed or Issued: Herewith Docket No.:
For: IMPROVED SAFETY URINAL

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS
(37 CFR 1.9(f) and 1.27(b) - INDEPENDENT INVENTOR)

As a below named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention entitled IMPROVED SAFETY URINAL

described in

☒ the specification filed herewith

☐ application serial no. _____, filed _____

☐ patent no. _____, issued _____

I have not assigned, granted, conveyed or licensed and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the inventions is listed below:

☒ no such person, concern or organization

☐ persons, concerns or organizations listed below:

NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

FULL NAME _____

ADDRESS _____

☐ INDIVIDUAL

☐ SMALL BUSINESS CONCERN

☐ NONPROFIT ORGANIZATION

FULL NAME _____

ADDRESS _____

☐ INDIVIDUAL

☐ SMALL BUSINESS CONCERN

☐ NONPROFIT ORGANIZATION

FULL NAME _____

ADDRESS _____

☐ INDIVIDUAL

☐ SMALL BUSINESS CONCERN

☐ NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b)).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful and false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

GOUGET Jacques

NAME OF INVENTOR

NAME OF INVENTOR

NAME OF INVENTOR

Signature of Inventor

Signature of Inventor

Signature of Inventor

23 October 1996

Date

Date

Date

19 MARS 1996

PCT

REQUETE

Le soussigné requiert que la présente demande internationale soit traitée conformément au Traité de coopération en matière de brevets.

Réservé à l'office récepteur

PCT/FR 96/004.12

Demande internationale n°

Date du dépôt international

Nom de l'office récepteur et "Demande internationale PCT"

Référence du dossier du déposant ou du mandataire (facultatif)
(12 caractères maximum)

Cadre n° I TITRE DE L'INVENTION	
Orignal de sécurité perfectionné	
Cadre n° II DEPOSANT	
Nom et adresse : (Nom de famille suivi du prénom; pour une personne morale, désignation officielle complète. L'adresse doit comprendre le code postal et le nom du pays.)	☒ Cette personne est aussi inventeur. n° de téléphone +33 1 42 68 57 84 n° de télécopieur +33 1 45 64 45 01 n° de téléimprimeur
GOUGET Jacques 3, Rue d'Auteuil 75016 PARIS FRANCE	
Nationalité (nom de l'Etat) : FRANCE	Domicile (nom de l'Etat) : FRANCE
Cette personne est déposant pour : ☒ tous les Etats désignés ☐ tous les Etats désignés sauf les Etats-Unis d'Amérique ☐ les Etats-Unis d'Amérique seulement ☐ les Etats indiqués dans le cadre supplémentaire	
Cadre n° III AUTRE(S) DEPOSANT(S) OU (AUTRE(S)) INVENTEUR(S)	
Nom et adresse : (Nom de famille suivi du prénom; pour une personne morale, désignation officielle complète. L'adresse doit comprendre le code postal et le nom du pays.)	Cette personne est : ☐ déposant seulement ☐ déposant et inventeur ☐ inventeur seulement (Si cette case est cochée, ne pas remplir la suite.)
Nationalité (nom de l'Etat) :	Domicile (nom de l'Etat) :
Cette personne est déposant pour : ☐ tous les Etats désignés ☐ tous les Etats désignés sauf les Etats-Unis d'Amérique ☐ les Etats-Unis d'Amérique seulement ☐ les Etats indiqués dans le cadre supplémentaire	
☐ D'autres déposants ou inventeurs sont indiqués sur une feuille annexe.	
Cadre n° IV MANDATAIRE OU REPRESENTANT COMMUN; OU ADRESSE POUR LA CORRESPONDANCE	
La personne dont l'identité est donnée ci-dessous est/à été désignée pour agir au nom du ou des déposants auprès des autorités internationales compétentes, comme : ☐ mandataire ☐ représentant commun	
Nom et adresse : (Nom de famille suivi du prénom; pour une personne morale, désignation officielle complète. L'adresse doit comprendre le code postal et le nom du pays.)	n° de téléphone n° de télécopieur n° de téléimprimeur
☐ Cocher cette case lorsque aucun mandataire ni représentant commun n'est/à été désigné et que l'espace ci-dessus est utilisé pour indiquer une adresse spéciale à laquelle la correspondance doit être envoyée.	

Feuille n° 2

Cadre n° V DESIGNATION D'ETATS

Les désignations suivantes sont faites conformément à la règle 4.9.a) (toutes les cases appropriées - une au moins doit l'être) :

Brevet régional

- ☐ AP Brevet ARIPO : KE Kenya, MW Malawi, SD Soudan, SZ Swaziland, UG Ouganda et tout autre Etat qui est un Etat contractant du Protocole de Harare et du PCT
- ☒ EP Brevet européen : AT Autriche, BE Belgique, CH et LI Suisse et Liechtenstein, DE Allemagne, DK Danemark, ES Espagne, FR France, GB Royaume-Uni, GR Grèce, IE Irlande, IT Italie, LU Luxembourg, MC Monaco, NL Pays-Bas, PT Portugal, SE Suède et tout autre Etat qui est un Etat contractant de la Convention sur le brevet européen et du PCT
- ☐ OA Brevet OAPI : BF Burkina Faso, BJ Bénin, CF République centrafricaine, CG Congo, CI Côte d'Ivoire, CM Cameroun, GA Gabon, GN Guinée, ML Mali, MR Mauritanie, NE Niger, SN Sénégal, TD Tchad, TG Togo et tout autre Etat qui est un Etat membre de l'OAPI et un Etat contractant du PCT (si une autre forme de protection ou de traitement est souhaitée, le préciser sur la ligne pointillée)

Brevet national (si une autre forme de protection ou de traitement est souhaitée, le préciser sur la ligne pointillée) :

- | | |
|--|--|
| ☐ AM Arménie | ☐ MD République de Moldova |
| ☐ AT Autriche | ☐ MG Madagascar |
| ☐ AU Australie | ☐ MN Mongolie |
| ☐ BB Barbade | ☐ MW Malawi |
| ☐ BG Bulgarie | ☒ MX Mexique |
| ☐ BR Brésil | ☐ NO Norvège |
| ☐ BY Bélarus | ☐ NZ Nouvelle-Zélande |
| ☒ CA Canada | ☐ PL Pologne |
| ☐ CH et LI Suisse et Liechtenstein | ☐ PT Portugal |
| ☐ CN Chine | ☐ RO Roumanie |
| ☐ CZ République tchèque | ☐ RU Fédération de Russie |
| ☐ DE Allemagne | ☐ SD Soudan |
| ☐ DK Danemark | ☐ SE Suède |
| ☐ EE Estonie | ☐ SG Singapour |
| ☐ ES Espagne | ☐ SI Slovénie |
| ☐ FI Finlande | ☐ SK Slovaquie |
| ☐ GB Royaume-Uni | ☐ TJ Tadjikistan |
| ☐ GE Géorgie | ☐ TM Turkménistan |
| ☐ HU Hongrie | ☐ TT Trinité-et-Tobago |
| ☐ IS Islande | ☐ UA Ukraine |
| ☐ JP Japon | ☐ UG Ouganda |
| ☐ KE Kenya | ☒ US Etats-Unis d'Amérique |
| ☐ KG Kirghizistan | |
| ☐ KP République populaire démocratique de Corée | ☐ UZ Ouzbékistan |
| | ☐ VN Viet Nam |
| ☐ KR République de Corée | |
| ☐ KZ Kazakhstan | |
| ☐ LK Sri Lanka | |
| ☐ LR Libéria | |
| ☐ LT Lituanie | |
| ☐ LU Luxembourg | |
| ☐ LV Lettonie | |

Outre les désignations faites ci-dessus, le déposant fait aussi conformément à la règle 4.9.b) toutes les désignations qui seraient autorisées en vertu du PCT, sauf la désignation de

Le déposant déclare que ces désignations additionnelles sont faites sous réserve de confirmation et que toute désignation qui n'a pas été confirmée avant l'expiration d'un délai de 15 mois à compter de la date de priorité doit être considérée comme retirée par le déposant à l'expiration de ce délai. (Pour confirmer une désignation, il faut déposer une déclaration contenant la désignation en question et payer les taxes de désignation et de confirmation. La confirmation doit parvenir à l'office récepteur dans le délai de 15 mois.)

Formulaire PCT/RO/101 (deuxième feuille) (juillet 1995)

Voir les notes relatives au formulaire de requête

Feuille n° 3....

Cadre n° VI REVENDECTION DE PRIORITE			D'autres revendications de priorité sont indiquées dans le cadre supplémentaire ☐
La priorité de la ou des demandes antérieures suivantes est revendiquée :			
Pays (dans lequel ou pour lequel la demande a été déposée)	Date de dépôt (jour/mois/année)	Demande n°	Office de dépôt (seulement s'il s'agit d'une demande régionale ou internationale)
(1) FRANCE	24/03/95 24 MARS 1995	9503504	
(2)			
(3)			
Cocher la case ci-dessous si la copie certifiée conforme de la demande antérieure doit être délivrée par l'office qui, aux fins de la présente demande internationale, est l'office récepteur (une case peut être cochée) : ☒ L'office récepteur est prié de préparer, et de transmettre au Bureau international, une copie certifiée conforme de la ou des demandes antérieures indiquées ci-dessus au(x) point(s) : (1)			
Cadre n° VII ADMINISTRATION CHARGÉE DE LA RECHERCHE INTERNATIONALE			
Choix de l'administration chargée de la recherche internationale (ISA) (Si plusieurs administrations chargées de la recherche internationale sont compétentes pour procéder à la recherche internationale, indiquer l'administration choisie; le code à deux lettres peut être utilisé): ISA/			
Recherche antérieure Remplir si une recherche (internationale, de type international ou nationale) a déjà été effectuée par l'administration chargée de la recherche internationale ou d'un autre organisme administratif compétent chargé de mener la recherche internationale, dans la mesure du possible, sur la réalisation de cette recherche antérieure. Pour permettre d'identifier cette recherche ou cette demande de recherche, donner les renseignements demandés ci-après pour la demande de brevet pertinente (ou sa traduction) ou pour la demande de recherche :			
Pays (ou office régional) :	Date (jour/mois/année) :	Numéro :	
Cadre n° VIII BORDEREAU			
La présente demande internationale comprend le nombre de feuilles suivant : 1. requête : 3 feuilles 2. description : 10 feuilles 3. revendications : 3 feuilles 4. abrégé : 1 feuille 5. dessins : 1 feuille Total : 18 feuilles	Le ou les éléments cochés ci-après sont joints à la présente demande internationale : 1. ☐ pouvoir distinct signé 2. ☐ copie du pouvoir général 3. ☐ explication de l'absence d'une signature 4. ☐ document(s) de priorité (indiqué(s) dans le cadre n° VI au(x) point(s)) : 5. ☐ feuille de calcul des taxes 6. ☐ indications séparées concernant des micro-organismes déposés 7. ☐ listage de séquence de nucléotides ou d'acides aminés (disquette) 8. ☐ autres éléments (préciser) :		
La figure n° _____ des dessins (le cas échéant) est proposée pour publication avec l'abrégé.			
Cadre n° IX SIGNATURE DU DEPOSANT OU DU MANDATAIRE			
À côté de chaque signature, indiquer le nom du signataire et, si cela n'apparaît pas clairement à la lecture de la requête, à quel titre l'intéressé signe.			
Jacques GOUGET 			
Réservé à l'office récepteur			
1. Date effective de réception des pièces supposées constituer la demande internationale :	2. Dessins : ☐ reçus : ☐ non reçus :		
3. Date effective de réception, rectifiée en raison de la réception ultérieure, mais dans les délais, de documents ou de dessins complétant ce qui est supposé constituer la demande internationale :			
4. Date de réception, dans les délais, des corrections demandées selon l'article 11.2 du PCT :			
5. Administration chargée de la recherche internationale indiquée par le déposant : ISA/	6. ☐ Transmission de la copie de recherche différée jusqu'au paiement de la taxe de recherche		
Réservé au Bureau international			
Date de réception de l'exemplaire original par le Bureau international :			

INTERNATIONAL SEARCH REPORT

 International Application No
 PCT/FR 96/00412

 A. CLASSIFICATION OF SUBJECT MATTER
 IPC 6 A61G9/00 A61G7/05

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 A61G A61F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US,A,3 163 869 (JOHNSON ET AL.) 5 January 1965 see the whole document ---	1-6,8,9, 12,17
Y	FR,A,1 575 606 (SAMSON PLASTICS INC.) 25 July 1969 see the whole document ---	1-6,8,9, 12,17
A	US,A,2 358 850 (CHENAULT) 26 September 1944 see the whole document ---	1-5,8,9
A	GB,A,Y01393 (BAXTER ET AL.) 20 January 1899 & GB-A-01393 A.D. 1899 see figures ---	3,6

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- * "A" document defining the general state of the art which is not considered to be of particular relevance
- * "E" earlier document but published on or after the international filing date
- * "L" document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- * "O" document referring to an oral disclosure, use, exhibition or other means
- * "P" document published prior to the international filing date but later than the priority date claimed

* "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

* "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

* "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

* "A" document member of the same patent family

Date of the actual completion of the international search

13 June 1996

Date of mailing of the international search report

21.06.96

Name and mailing address of the ISA

 European Patent Office, P.B. 5818 Palatinat 2
 NL - 2280 HV Rijswijk
 Tel. (+ 31-70) 340-3040, Tx. 31 651 epo nl,
 Fax (+ 31-70) 340-3016

Authorized officer

Godot, T

Form PCT/ISA/210 (revised sheet) (July 1992)

page 1 of 2

INTERNATIONAL SEARCH REPORT

 Inter-
 national Application No
 PCT/FR 96/00412

C/(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FR,A,578 214 (SMALL) 20 September 1924 see the whole document ---	16
A	US,A,4 696 067 (WOODWARD) 29 September 1987 see figures 2,3 ---	16
A	EP,A,0 526 676 (GOUGET) 10 February 1993 see claim 4 ---	18
A	US,A,1 343 363 (HALL) 15 June 1920 see figure 1 ---	19
A	US,A,4 736 920 (OMESSI) 12 April 1988 see column 2, line 59 - line 60; figure 4 ---	19
A	DE,U,92 10 557 (SCHULTE) 8 October 1992 see figures ---	19
A	US,A,3 927 426 (GEDDES) 23 December 1975 see figure 12 -----	20

Form PCT/ISA/218 (continuation of stated sheet) (July 1992)

page 2 of 2

INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No

PCT/FR 96/00412

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US-A-3163869	05-01-65	NONE	
FR-A-1575606	25-07-69	US-A- 3471870 US-A- 3471869	14-10-69 14-10-69
US-A-2358850	26-09-44	NONE	
GB-A-Y01393		NONE	
FR-A-578214	20-09-24	NONE	
US-A-4696067	29-09-87	NONE	
EP-A-0526676	10-02-93	NONE	
US-A-1343363	15-06-20	NONE	
US-A-4736920	12-04-88	NONE	
DE-U-9210557	08-10-92	NONE	
US-A-3927426	23-12-75	NONE	

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/FR 96/00412

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 A61G9/00 A61G7/05

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 6 A61G A61F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US,A,3 163 869 (JOHNSON ET AL.) 5 January 1965 see the whole document	1-6,8,9, 12,17
Y	FR,A,1 575 606 (SAMSON PLASTICS INC.) 25 July 1969 see the whole document	1-6,8,9, 12,17
A	US,A,2 358 850 (CHENAULT) 26 September 1944 see the whole document	1-5,8,9
A	GB,A,Y01393 (BAXTER ET AL.) 20 January 1899 & GB-A-01393 A.D. 1899 see figures	3,6

	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

1

Date of the actual completion of the international search 13 June 1996	Date of mailing of the international search report 21.06.96
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2, NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Godot, T

Form PCT/ISA/210 (second sheet) (July 1992)

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/FR 96/00412

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FR,A,578 214 (SMALL) 20 September 1924 see the whole document ---	16
A	US,A,4 696 067 (WOODWARD) 29 September 1987 see figures 2,3 ---	16
A	EP,A,0 526 676 (GOUGET) 10 February 1993 see claim 4 ---	18
A	US,A,1 343 363 (HALL) 15 June 1920 see figure 1 ---	19
A	US,A,4 736 920 (OMESSI) 12 April 1988 see column 2, line 59 - line 60; figure 4 ---	19
A	DE,U,92 10 557 (SCHULTE) 8 October 1992 see figures ---	19
A	US,A,3 927 426 (GEDDES) 23 December 1975 see figure 12 -----	20

Form PCT/ISA/210 (continuation of second sheet) (July 1992)

page 2 of 2

INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No

PCT/FR 96/00412

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US-A-3163869	05-01-65	NONE	
FR-A-1575606	25-07-69	US-A- 3471870	14-10-69
		US-A- 3471869	14-10-69
US-A-2358850	26-09-44	NONE	
GB-A-Y01393		NONE	
FR-A-578214	20-09-24	NONE	
US-A-4696067	29-09-87	NONE	
EP-A-0526676	10-02-93	NONE	
US-A-1343363	15-06-20	NONE	
US-A-4736920	12-04-88	NONE	
DE-U-9210557	08-10-92	NONE	
US-A-3927426	23-12-75	NONE	

RAPPORT DE RECHERCHE INTERNATIONALE

 Document Internationale No
 PCT/FR 96/00412

 A. CLASSEMENT DE L'OBJET DE LA DEMANDE
 CIB 6 A61G9/00 A61G7/05

Selon la classification internationale des brevets (CIB) ou à la fois selon la classification nationale et la CIB

B. DOMAINES SUR LESQUELS LA RECHERCHE A PORTE

Documentation minimale consultée (système de classification suivi des symboles de classement)

CIB 6 A61G A61F

Documentation consultée autre que la documentation minimale dans la mesure où ces documents relèvent des domaines sur lesquels a porté la recherche

Base de données électronique consultée au cours de la recherche internationale (nom de la base de données, et si cela est réalisable, termes de recherche utilisés)

C. DOCUMENTS CONSIDERES COMME PERTINENTS

Catégorie	Identification des documents cités, avec, le cas échéant, l'indication des passages pertinents	no. des revendications visées
Y	US,A,3 163 869 (JOHNSON ET AL.) 5 Janvier 1965 voir le document en entier ---	1-6,8,9, 12,17
Y	FR,A,1 575 606 (SAMSON PLASTICS INC.) 25 Juillet 1969 voir le document en entier ---	1-6,8,9, 12,17
A	US,A,2 358 850 (CHENAULT) 26 Septembre 1944 voir le document en entier ---	1-5,8,9
A	GB,A,Y01393 (BAXTER ET AL.) 20 Janvier 1899 & GB-A-01393 A.D. 1899 voir figures --- -/-	3,6

☒ Voir la suite du cadre C pour la fin de la liste des documents☒ Les documents de familles de brevets sont indiqués en annexe

* Catégories spéciales de documents cités:

- * 'A' document définissant l'état général de la technique, non considéré comme particulièrement pertinent
- * 'E' document antérieur, mais publié à la date de dépôt international ou après cette date
- * 'L' document pouvant jeter un doute sur une revendication de priorité ou cité pour déterminer la date de publication d'une autre citation ou pour une raison spéciale (telle qu'indiquée)
- * 'O' document se référant à une divulgation orale, à un usage, à une exposition ou tous autres moyens
- * 'P' document publié avant la date de dépôt international, mais postérieurement à la date de priorité revendiquée

* 'T' document ultérieur publié après la date de dépôt international ou la date de priorité et n'appartenant pas à l'état de la technique pertinent, mais cité pour comprendre le principe ou la théorie constituant la base de l'invention

* 'X' document particulièrement pertinent, l'invention revendiquée ne peut être considérée comme nouvelle ou comme impliquant une activité inventive par rapport au document considéré isolément

* 'Y' document particulièrement pertinent, l'invention revendiquée ne peut être considérée comme impliquant une activité inventive lorsque le document est associé à un ou plusieurs autres documents de même nature, cette combinaison étant évidente pour une personne du métier

* '&' document qui fait partie de la même famille de brevets

1

Date à laquelle la recherche internationale a été effectivement achevée 13 Juin 1996	Date d'expédition du présent rapport de recherche internationale 21.06.96
Nom et adresse postale de l'administration chargée de la recherche internationale Office Européen des Brevets, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016	Fonctionnaire autorisé Godot, T

Formulaire PCT/ISA/210 (deuxième feuille) (juillet 1992)

RAPPORT DE RECHERCHE INTERNATIONALE

Dern. Internationale No
PCT/FR 96/00412

C.(suite) DOCUMENTS CONSIDERES COMME PERTINENTS		
Catégorie	Identification des documents cités, avec, le cas échéant, l'indication des passages pertinents	no. des revendications visées
A	FR,A,578 214 (SMALL) 20 Septembre 1924 voir le document en entier ---	16
A	US,A,4 696 067 (WOODWARD) 29 Septembre 1987 voir figures 2,3 ---	16
A	EP,A,0 526 676 (GOUGET) 10 Février 1993 voir revendication 4 ---	18
A	US,A,1 343 363 (HALL) 15 Juin 1920 voir figure 1 ---	19
A	US,A,4 736 920 (OMESSI) 12 Avril 1988 voir colonne 2, ligne 59 - ligne 60; figure 4 ---	19
A	DE,U,92 10 557 (SCHULTE) 8 Octobre 1992 voir figures ---	19
A	US,A,3 927 426 (GEDDES) 23 Décembre 1975 voir figure 12 -----	20

1

Formulaire PCT/ISA/210 (suite de la deuxième feuille) (juillet 1992)

page 2 de 2

RAPPORT DE RECHERCHE INTERNATIONALE
Renseignements relatifs aux membres de familles de brevets

Internationale No
PCT/FR 96/00412

Document brevet cité au rapport de recherche	Date de publication	Membre(s) de la famille de brevet(s)	Date de publication
US-A-3163869	05-01-65	AUCUN	
FR-A-1575606	25-07-69	US-A- 3471870 US-A- 3471869	14-10-69 14-10-69
US-A-2358850	26-09-44	AUCUN	
GB-A-Y01393		AUCUN	
FR-A-578214	20-09-24	AUCUN	
US-A-4696067	29-09-87	AUCUN	
EP-A-0526676	10-02-93	AUCUN	
US-A-1343363	15-06-20	AUCUN	
US-A-4736920	12-04-88	AUCUN	
DE-U-9210557	08-10-92	AUCUN	
US-A-3927426	23-12-75	AUCUN	

Formulaire PCT/ISA/210 (annexe familles de brevets) (juillet 1992)

TRAITE L COOPERATION EN MATIERE BREVETS

PCT

RAPPORT DE RECHERCHE INTERNATIONALE

(article 18 et règles 43 et 44 du PCT)

Référence du dossier du déposant ou du mandataire	POUR SUITE voir la notification de transmission du rapport de recherche internationale (formulaire PCT/ISA/220) et, le cas échéant, le point 5 ci-après A DONNER	
Demande internationale n°	Date du dépôt international (Jour/mois/année)	(Date de priorité (la plus ancienne) (Jour/mois/année))
PCT/FR 96/00412	19/03/96	24/03/95
Déposant		
GOUGET, Jacques		

Le présent rapport de recherche internationale, établi par l'administration chargée de la recherche internationale, est transmis au déposant conformément à l'article 18. Une copie en est transmise au Bureau international.

Ce rapport de recherche internationale comprend 3 feuilles.

☒ Il est aussi accompagné d'une copie de chaque document relatif à l'état de la technique qui y est cité.

1. ☐ Il a été estimé que certaines revendications ne pouvaient pas faire l'objet d'une recherche (voir le cadre I).
2. ☐ Il y a absence d'unité de l'invention (voir le cadre II).
3. ☐ La demande internationale contient la divulgation d'un listage de séquence de nucléotides ou d'acides aminés et la recherche internationale a été effectuée sur la base du listage de séquence.
 - ☐ déposé avec la demande internationale
 - ☐ fourni par le déposant séparément de la demande internationale
 - ☐ sans être accompagnée d'une déclaration selon laquelle il n'inclut pas d'éléments allant au-delà de la divulgation faite dans la demande internationale telle qu'elle a été déposée.
 - ☐ transcrit par l'administration
4. En ce qui concerne le titre, ☒ le texte est approuvé tel qu'il a été remis par le déposant.
☐ Le texte a été établi par l'administration et a la teneur suivante:
5. En ce qui concerne l'abrégé, ☒ le texte est approuvé tel qu'il a été remis par le déposant
☐ le texte (reproduit dans le cadre III) a été établi par l'administration conformément à la règle 38.2b). Le déposant peut présenter des observations à l'administration dans un délai d'un mois à compter de la date d'expédition du présent rapport de recherche internationale.
6. La figure des dessins à publier avec l'abrégé est la suivante:
 Figure n° 1 ☐ suggérée par le déposant.
☒ parce que le déposant n'a pas suggéré de figure.
☐ parce que cette figure caractérise mieux l'invention.

☐ Aucune des figures n'est à publier.

RAPPORT DE RECHERCHE INTERNATIONALE

nde Internationale No
CT/FR 96/00412

A. CLASSEMENT DE L'OBJET DE LA DEMANDE CIB 6 A61G9/00 A61G7/05		
Selon la classification internationale des brevets (CIB) ou à la fois selon la classification nationale et la CIB		
B. DOMAINES SUR LESQUELS LA RECHERCHE A PORTE Documentation minimale consultée (système de classification suivi des symboles de classement) CIB 6 A61G A61F		
Documentation consultée autre que la documentation minimale dans la mesure où ces documents relèvent des domaines sur lesquels a porté la recherche		
Base de données électronique consultée au cours de la recherche internationale (nom de la base de données, et si cela est réalisable, termes de recherche utilisés)		
C. DOCUMENTS CONSIDERES COMME PERTINENTS		
Catégorie *	Identification des documents cités, avec, le cas échéant, l'indication des passages pertinents	no. des revendications visées
Y	US,A,3 163 869 (JOHNSON ET AL.) 5 Janvier 1965 voir le document en entier ---	1-6,8,9, 12,17
Y	FR,A,1 575 606 (SAMSON PLASTICS INC.) 25 Juillet 1969 voir le document en entier ---	1-6,8,9, 12,17
A	US,A,2 358 850 (CHENAULT) 26 Septembre 1944 voir le document en entier ---	1-5,8,9
A	GB,A,Y01393 (BAXTER ET AL.) 20 Janvier 1899 & GB-A-01393 A.D. 1899 voir figures --- -/--	3,6
☒ Voir la suite du cadre C pour la fin de la liste des documents \ ☒ Les documents de familles de brevets sont indiqués en annexe		
* Catégories spéciales de documents cités: "A" document définissant l'état général de la technique, non considéré comme particulièrement pertinent "E" document antérieur, mais publié à la date de dépôt international ou après cette date "L" document pouvant jeter un doute sur une revendication de priorité ou cité pour déterminer la date de publication d'une autre citation ou pour une raison spéciale (telle qu'indiquée) "O" document se référant à une divulgation orale, à un usage, à une exposition ou tous autres moyens "P" document publié avant la date de dépôt international, mais postérieurement à la date de priorité revendiquée "T" document ultérieur publié après la date de dépôt international ou la date de priorité et n'appartenant pas à l'état de la technique pertinent, mais cité pour comprendre le principe ou la théorie constituant la base de l'invention "X" document particulièrement pertinent l'invention revendiquée ne peut être considérée comme nouvelle ou comme impliquant une activité inventive par rapport au document considéré isolément "Y" document particulièrement pertinent l'invention revendiquée ne peut être considérée, comme impliquant une activité inventive lorsque le document est associé à un ou plusieurs autres documents de même nature, cette combinaison étant évidente pour une personne du métier "&" document qui fait partie de la même famille de brevets		
Date à laquelle la recherche internationale a été effectivement achevée 13 Juin 1996		Date d'expédition du présent rapport de recherche internationale 21.06.96
Nom et adresse postale de l'administration chargée de la recherche internationale Office Européen des Brevets, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tél. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Fonctionnaire autorisé Godot, T

Formulaire PCT/ISA/210 (deuxième feuille) (juillet 1992)

RAPPORT DE RECHERCHE INTERNATIONALE

nde Internationale No
rCT/FR 96/00412

C.(suite) DOCUMENTS CONSIDERES COMME PERTINENTS		
Catégorie	Identification des documents cités, avec, le cas échéant, l'indication des passages pertinents	no. des revendications visées
A	FR,A,578 214 (SMALL) 20 Septembre 1924 voir le document en entier ---	16
A	US,A,4 696 067 (WOODWARD) 29 Septembre 1987 voir figures 2,3 ---	16
A	EP,A,0 526 676 (GOUGET) 10 Février 1993 voir revendication 4 ---	18
A	US,A,1 343 363 (HALL) 15 Juin 1920 voir figure 1 ---	19
A	US,A,4 736 920 (OMESSI) 12 Avril 1988 voir colonne 2, ligne 59 - ligne 60; figure 4 ---	19
A	DE,U,92 10 557 (SCHULTE) 8 Octobre 1992 voir figures ---	19
A	US,A,3 927 426 (GEDDES) 23 Décembre 1975 voir figure 12 -----	20

Formulaire PCT/ISA/210 (suite de la deuxième feuille) (juillet 1992)

page 2 de 2

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/FR 96/00412

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US-A-3163869	05-01-65	NONE	
FR-A-1575606	25-07-69	US-A- 3471870 US-A- 3471869	14-10-69 14-10-69
US-A-2358850	26-09-44	NONE	
GB-A-Y01393		NONE	
FR-A-578214	20-09-24	NONE	
US-A-4696067	29-09-87	NONE	
EP-A-0526676	10-02-93	NONE	
US-A-1343363	15-06-20	NONE	
US-A-4736920	12-04-88	NONE	
DE-U-9210557	08-10-92	NONE	
US-A-3927426	23-12-75	NONE	

Form PCT/ISA/210 (patent family annex) (July 1992)

RE PUBLIQUE FRANÇAISE



PCT/FR96/00412

08/737879#3

BREVET D'INVENTION

CERTIFICAT D'UTILITÉ - CERTIFICAT D'ADDITION

PRIORITY DOCUMENT

REC'D 06 MAY 1996

WIPO PCT

COPIE OFFICIELLE

Le Directeur général de l'Institut national de la propriété industrielle certifie que le document ci-annexé est la copie certifiée conforme d'une demande de titre de propriété industrielle déposée à l'Institut.

Fait à Paris, le 26 AVRIL 1996

Pour le Directeur général de l'Institut
national de la propriété industrielle
Le Chef de Division

Yves CAMPENON

INSTITUT
NATIONAL DE
LA PROPRIÉTÉ
INDUSTRIELLE

SIEGE
26 bis, rue de Saint Petersbourg
75800 PARIS Cedex 08
Téléphone : (1) 42 94 52 52
Télécopie : (1) 42 93 99 30

RE 107 01795

ETABLISSEMENT PUBLIC NATIONAL CRÉE PAR LA LOI N° 51-444 DU 19 AVRIL 1951



INSTITUT NATIONAL DE LA PROPRIÉTÉ INDUSTRIELLE



N° 55 - 1222

REQUETE
EN DÉLIVRANCE D'UN
TITRE DE PROPRIÉTÉ
INDUSTRIELLE *

DATE DE REMISE DES PIÈCES
24.MAR.1995
N° D'ENREGISTREMENT NATIONAL
95 03504 -
CODE POSTAL DU LIEU DE DÉPÔT
75

a	☒ BREVET D'INVENTION
b	☐ CERTIFICAT D'UTILITÉ
c	☐ DEMANDE DIVISIONNAIRE
d	☐ TRANSFORMATION D'UNE DEMANDE DE BREVET EUROPÉEN

Pour c et d, précisez : Nature, N° et date de la demande initiale

2 OPTIONS OBLIGATOIRES au moment du dépôt (sauf pour le certificat d'utilité)	
LE DEMANDEUR REQUIERT L'ÉTABLISSEMENT DIFFÉRENT DU RAPPORT DE RECHERCHE *	☐ OUI ☒ NON
SI L'OPTION CHOISIE EST NON ET SI LE DEMANDEUR EST UNE PERSONNE PHYSIQUE IL REQUIERT LE PAIEMENT ÉCHELONNÉ DE LA REDEVANCE DE RAPPORT DE RECHERCHE	☐ OUI ☒ NON
NATURE	NUMÉRO
DATE DE LA DEMANDE INITIALE	

3. NOM ET ADRESSE DU DEMANDEUR OU DU MANDATAIRE A QUI TOUTE LA CORRESPONDANCE DOIT ÊTRE ADRESSÉE
Monsieur Jacques GOUGET
3, rue d'Auteuil
75016 PARIS

7 TITRE DE L'INVENTION

URINAL DE SECURITE PERFECTIONNE

8 DEMANDEUR(S) : Nom et Prénoms (souligner le nom patronymique) ou dénomination et forme juridique

N° SIREN.

Monsieur Jacques Maurice GOUGET

9 ADRESSE(S) COMPLÈTE(S)

3, rue d'Auteuil
75016 PARIS

PAYS

FRANCE

10 NATIONALITÉ(S)

Français

11 INVENTEUR(S)

LE DEMANDEUR EST L'UNIQUE INVENTEUR *

☒ OUI ☐ NON

Si la réponse est non voir notice explicative

12

SI LE DEMANDEUR EST UNE PERSONNE PHYSIQUE NON IMPOSSIBLE, IL REQUIERT * OU A REQUIS LA RÉDUCTION DES REDEVANCES *

☐ OUI ☒ NON

DE DÉPÔT

REDEVANCES VERSÉES

DE RAPPORT DE RECHERCHE

DE REVENDEMENT DE PRIORITÉ

DE REVENDEMENT (à partir de la 118)

13 DÉCLARATION DE PRIORITÉ
OU REQUÊTE DU BÉNÉFICE DE
LA DATE DE DÉPÔT D'UNE
DEMANDE ANTÉRIEURE

PAYS D'ORIGINE

DATE DE DÉPÔT

NUMÉRO

14

DIVISIONS

ANTÉRIEURES A LA
PRÉSENTE DEMANDE

N°

N°

N°

N°

15 SIGNATURE DU DEMANDEUR OU DU MANDATAIRE
NOM ET QUALITÉ DU SIGNATAIRE - INSCRIPTIONGOUGET Jacques
DEMANDEUR

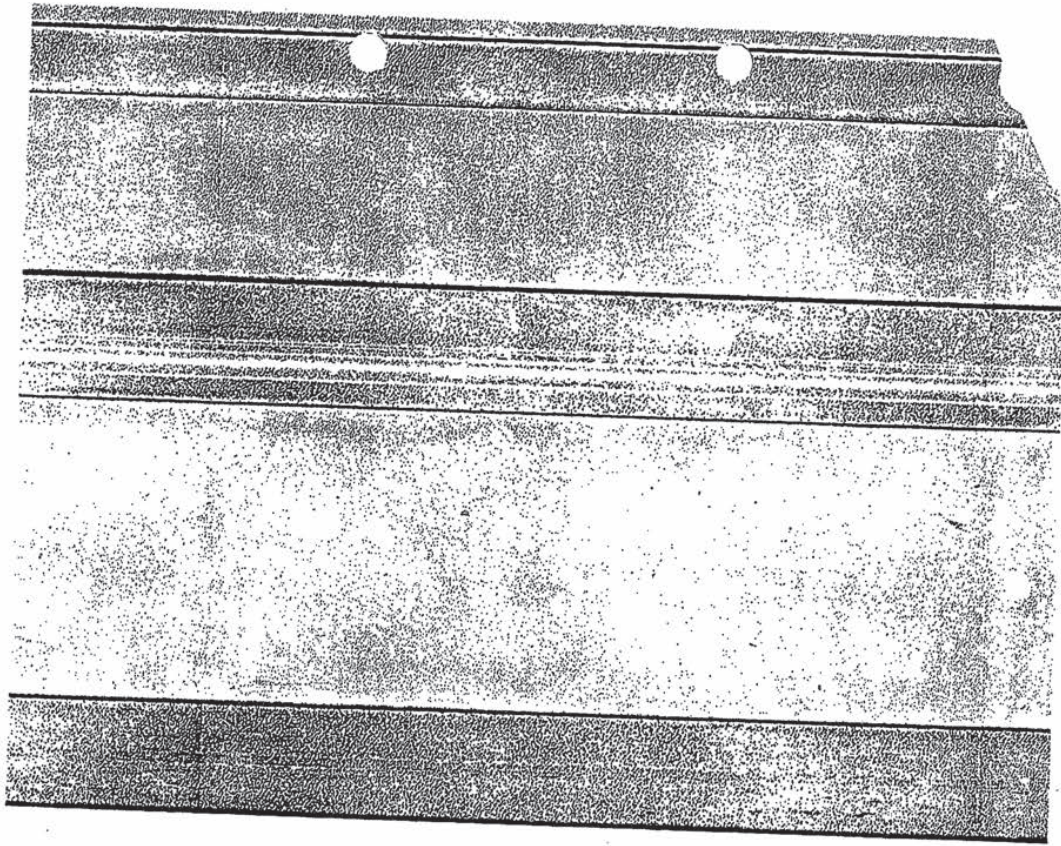
SIGNATURE DU PRÉPOSÉ A LA RÉCEPTION

SIGNATURE APRES ENREGISTREMENT DE LA DEMANDE, A L'INPI

* Cocher la case choisie

LES ENCADRÉS GRAS SONT RÉSERVÉS A L'ADMINISTRATION

BA 540230933



DOCUMENT COMPORTANT DES MODIFICATIONS

PAGE(S), DE LA DESCRIPTION OU DES REVENDI- CATIONS OU PLANCHE(S) DE DESSIN			R.M.*	DATE DE LA CORRESPONDANCE	TAMPON DATEUR DU CORRECTEUR
Modifiée(s)	Supprimée(s)	Ajoutée(s)			
9.11a.13	/	/	R.A. juillet 1995		25 JUL. 1995 - B G A

Un changement apporté à la rédaction des revendications d'origine, sauf si celui-ci découle des dispositions de l'article 28 du décret du 19 septembre 1979, est signalé par la mention "R.M." (revendications modifiées).

RT 244 / 171120

Urinal de sécurité perfectionné

1 Les urinaux de sécurité connus, en matière plastique transparente ou translucide, capables de supporter une température de stérilisation de 130°C, ont un système anti-reflux qui est amovible par dévissage pour permettre le nettoyage de l'ensemble et est indispensable pour les vidanges.

5 L'urinal de sécurité suivant l'invention, est en matière plastique transparente ou translucide. Il est capable de supporter une température de stérilisation de 130°C. Il possède un système anti-reflux amovible notamment par dévissage. Par rapport aux modèles connus, il comporte en plus un système de «vide-vite» particulier qui
10 dispense notamment d'ôter l'anti-reflux pour vidanger, évite des dégagements d'odeurs au moment de la vidange et offre en sus de judicieuses modifications et additions qui se combinent et lui confèrent des avantages nouveaux.

A cet effet et suivant l'invention:

15 La paroi de cet urinal perfectionné comporte un trou situé approximativement vers l'extrémité opposée à son col. Ce trou est positionné au dessus du niveau normal de remplissage. Ce trou est surmonté par un conduit qui canalise la vidange et forme goulot verseur qui oriente et dirige le jet notamment pour pouvoir verser
20 avec précision dans un tube à essai. Ce conduit est agencé à son extrémité qui débouche vers l'extérieur pour recevoir notamment un système d'obturation permettant un bouchage et un débouchage rapide. Le diamètre de ce trou et celui du conduit qui le surmonte sont seulement suffisants pour assurer une vidange assez rapide de cet urinal perfectionné. L'ensemble du trou, du conduit et du
25 système de bouchage constitue le système de « vide-vite » de l'urinal de sécurité perfectionné.

Il évite de sortir le système anti-reflux du col et d'avoir à le manipuler chaque fois qu'il est seulement utile de vider ledit urinal. Un rinçage par le « vide-vite » est possible.

1 Avant, avec un urinal, lors de la vidange de son contenu par le large orifice de son col, s'échappait fâcheusement l'atmosphère interne confinée de cet urinal ... vers le manipulateur.

5 Par contre, avec l'urinal de sécurité perfectionné, lors de sa vidange par le « vide-vite », dont la section interne est judicieusement limitée, le flot de vidange peut facilement en occuper toute la section. Il en résulte qu'il ne reste pas de passage pour l'atmosphère interne de l'urinal perfectionné qui puisse lui permettre de s'échapper pendant une vidange. Ainsi le manipulateur n'est pas incommodé.

10 Lorsque l'urinal de sécurité est immergé dans un bac de nettoyage, l'orifice du « vide-vite » (non bouché) facilite le rinçage de tout l'intérieur de l'urinal perfectionné.

15 Un raccord de préférence fileté prolongé par un tuyau souple est agencé pour être raccordé au conduit du « vide-vite » dont l'extrémité est dotée d'un filetage extérieur.

L'autre bout du tuyau souple peut être enfoncé dans un siphon de vidange du type utilisé pour recevoir les vidanges des machines à laver ou dans tous autres réceptacles ...

20 Ce dispositif permet une vidange pratique et hygiénique de l'urinal de sécurité perfectionné.

Un raccord analogue avec un tuyau souple branché sur une arrivée d'eau peut être également utilisé pour le rinçage interne de l'urinal de sécurité perfectionné, notamment en milieu hospitalier.

25 Un système de bouchage obture le conduit du « vide-vite » de l'urinal de sécurité perfectionné. Ce système est soit constitué par un simple bouchon introduit dans le conduit, soit par une capsule jointée ou auto-jointante à lèvres, de préférence vissée sur la partie terminale du conduit comportant notamment à cet effet un

1 filetage extérieur. Pour éviter un débouchage intempestif par un alité n'ayant pas
toute sa lucidité, le « vide-vite » dans ce cas est obturé par une capsule dite de
sécurité à vis (jointée ou auto-jointante) qui une fois vissée, nécessite, pour pouvoir
la dévisser, d'exercer en même temps une forte pression généralement axiale. A
5 défaut, le dévissage n'embraye pas. Ces capsules de sécurité à vis, dans ce cas,
émettent alors un bruit de clic clac avertissant de la tentative de débouchage.
Certaines capsules n'émettent pas de bruit lors de la tentative de débouchage.
Un moyen supplémentaire pour éviter les débouchages non désirés est que le pas de
vis des capsules et du conduit au lieu d'être normalement avec un pas à droite, sont
10 avec un pas à gauche.
Pour permettre d'ôter plus facilement le bouchon simple, sa partie supérieure peut
comporter un épaulement circulaire permettant de mieux le saisir. De même les
capsules, pour faciliter leur dévissage et leur revissage, sont dotées sur leur
pourtour de stries ou de pans coupés.
15
Le bouchon simple est réalisé dans une matière souple capable de tenir à 130°C.
C'est à base de silicone souple que peut être fabriqué un tel bouchon pour le
« vide-vite » de l'urinal de sécurité perfectionné. En effet, cette matière, lors des
débouchages et rebouchages successifs, offre l'avantage de bien supporter
20 l'éventuelle agressivité de l'orifice du « vide-vite », et d'accepter une température
de 130°C.

Les capsules à vis sont en matière plastique résistant à 130°C et sont notamment de
la famille des polyoléfinés.
25
La couleur de l'obturateur bouchant le « vide-vite » de l'urinal de sécurité
perfectionné est choisie de préférence pour attirer l'attention et de teinte différente
du corps de l'urinal perfectionné. Elle est avantageusement rouge ou blanche pour
permettre de le retrouver facilement et pour s'apercevoir rapidement qu'il est bien

1 mis en place dans l'orifice du « vide-vite ». Une teinte fluorescente convient également.

5 Les obturateurs ci-avant comportent une matière emmagasinant des photons lorsqu'elle est dans une ambiance lumineuse et les restitue sous forme de lumière lorsqu'elle est dans l'obscurité permettant ainsi de retrouver de nuit son urinal de sécurité perfectionné et cet obturateur lorsqu'il a été momentanément posé à proximité.

10 Une cavité dans le système d'obturation du « vide-vite » de l'urinal de sécurité perfectionné, débouche vers l'intérieur de son conduit. Cette cavité et son orifice sont judicieusement dimensionnés pour que s'emboîte par exemple élastiquement dedans un petit conteneur percé contenant une pastille volatile de même nature que celles disposées dans les cuvettes des w.c., pour assainir l'atmosphère interne dudit urinal lorsque le « vide-vite » est obturé.

15 Le trou et son conduit permettent d'effectuer des prélèvements dans ledit urinal de sécurité perfectionné et d'introduire des sondes indiquant pH, etc ... Ils conviennent aussi pour introduire et pour fixer une sonde aboutissant à proximité du petit orifice de l'anti-reflux de telle sorte que lorsqu'elle serait mouillée pendant
20 un certain temps, elle établirait un contact électrique déclenchant une alerte sonore prévenant notamment de la nécessité de vidanger.

La couleur de la matière constituant le système anti-reflux de l'urinal de sécurité perfectionné est avantageusement choisie pour qu'elle soit différente de celle
25 constituant le corps dudit urinal. Il en résulte qu'on s'aperçoit extérieurement qu'il s'agit d'une pièce distincte dont une partie dépasse à l'extrémité du col dudit urinal. Ainsi on voit où il faut la saisir pour pouvoir la désolidariser de l'urinal. Sa coloration permet aussi de mieux voir en toutes positions le remplissage éventuel encore possible dans ledit urinal en estimant la distance qui reste entre la petite
30 extrémité de l'anti-reflux et le niveau du contenu.

1 Par sécurité, pour éviter des dévissages intempestifs du dispositif anti-reflux par des alités n'ayant pas toute leur lucidité, son vissage au lieu d'être classique avec un pas à droite, est doté d'un pas à gauche.

5 Pour être facile à manipuler et par hygiène, l'urinal perfectionné est avantageusement doté d'une poignée amovible ou fixe. Elle est en matière plastique capable de résister à une température de stérilisation de 130°C. Elle prend naissance vers le milieu du dos de l'urinal de sécurité perfectionné. Pour qu'elle ne glisse pas de la main, sous son extrémité, il existe un petit bossage.

10 Pour rendre moins volumineux l'emballage et plus économique le transport des urinaux de sécurité perfectionné, leurs poignées amovibles sont de dimensions telles qu'elles peuvent franchir les cols desdits urinaux et être logées dans lesdits urinaux pendant leur transport et pour leur stockage.

15

- Cas de la poignée amovible:

Le dos de l'urinal de sécurité perfectionné comporte au moins une languette dont l'axe de symétrie est parallèle à l'axe dudit urinal. Cette languette présente de chaque côté à sa base un décrochement longitudinal. Une
20 coulisse ou un système analogue dotée d'une section en rapport avec celle de ladite languette existe en creux dans la semelle de la poignée. Les deux bords latéraux de ladite coulisse comportent chacun une retenue capable d'enchâsser ladite languette introduite par glissement dans ladite coulisse. Une butée en limite le coulissage. Un téton ou son équivalent situé sur le
25 dessus de ladite languette vient élastiquement se positionner dans un logement creux prévu à cet effet dans ladite coulisse ou à proximité, ou vice versa. La poignée se trouve positionnée tout en restant amovible. Pour une poignée inamovible, le téton et sa contrepartie ont chacun une face verticale rendant l'encliquetage irréversible.

1 - Cas de la poignée fixe:

5 Dans le cas d'une fabrication de l'urinal à partir d'une paraison creuse, ladite paraison est dimensionnée et positionnée pour qu'elle déborde dans le moule au delà de l'empreinte de l'urinal dans la zone correspondant au dos dudit urinal. Les couteaux du moule sont judicieusement disposés pour qu'au delà du contour de l'empreinte de l'urinal de sécurité perfectionné, ils puissent découper au profil de la poignée la paraison aplatie qui déborde, tout en laissant reliée la base de ladite poignée au corps de l'urinal de sécurité perfectionné. Lors de la fermeture du moule, les couteaux
10 découpent la paraison suivant le contour de l'empreinte sauf à l'endroit du pied de la poignée dont ils découpent le contour extérieur tout en écrasant à chaud cette dernière. La poignée est logée dans les deux demi-cavités pas tout à fait assez profondes pour la contenir. Il en résulte une pression à chaud de nature à souder entre elles ses deux parois.

15 Pour rendre plus facilement saisissable cette poignée plate, les demi-cavités dans le moule formant le logement de cette poignée présentent à cet effet en certains points des différences symétriques de profondeur de nature à presser la matière plastique issue de la paraison pour la faire refluer vers d'autres points de ces demi-cavités symétriquement plus creux et ainsi
20 épaissir la poignée en certains points en ayant réalisé de la sorte un véritable matriçage à chaud pour faire refluer la matière plastique des points moins creux vers des points plus creux.

25 Par ce procédé de matriçage à chaud, on peut aussi déformer la poignée sur la partie prévue pour la saisir en y créant notamment des ondulations pour augmenter son encombrement.

30 Qu'il s'agisse desdites poignées amovibles ou fixes, la technique qui consisterait à en obtenir par soufflage serait de nature à poser des problèmes d'étanchéité dans le cas de fabrications faites en série.

1 Un antiseptique, parfumé ou non, est greffé par hygiène dans la matière constituant le corps de l'urinal perfectionné, dans celle de sa poignée et dans celle de son système anti-reflux, ainsi que dans celle de son bouchage.

5 Bouchons, capsules, poignées et anti-reflux sont d'une densité telle qu'en cas de chute dans l'eau, ils flottent et ainsi sont facilement récupérables.

Pour rendre encore plus pratique l'usage de l'urinal de sécurité perfectionné, un porte-urinal qui s'accroche sur le côté du lit par une sorte de crochet est établi pour
10 tenir à disposition ledit urinal qui ainsi demeure à portée de main de l'alié.

Ce porte-urinal est essentiellement constitué par seulement trois branches stérilisables à 130°C convenablement courbées formant une cage ouverte dont les éléments sont réunis seulement en deux points éventuellement par soudure.

15 L'ensemble peut également être réalisé d'une seule pièce en matière plastique par moulage.

Ce porte-urinal constitue une sorte de berceau ouvert dans lequel repose l'urinal de sécurité perfectionné. A cet effet, sa forme et ses dimensions sont spécialement établies pour recevoir ledit urinal et le maintenir latéralement en position verticale
20 (col en l'air).

Il est suffisamment ouvert sur le devant pour laisser facilement accessibles les encoches de saisissement et/ou la poignée dudit urinal. Pour que les extrémités des tiges qui le constituent ne soient pas blessantes, elles sont revêtues d'embouts en matière souple. Sa grande simplicité rend peu onéreuse sa fabrication en série et
25 facilite son entretien et sa désinfection.

1 Des modes de réalisation de l'invention sont décrits ci-après à titres d'exemples non limitatifs, avec références aux figures des dessins annexés dans lesquels:

la figure 1 selon l'invention est une vue en élévation avec coupe partielle suivant
5 CD de l'urinal de sécurité perfectionné illustrant le principe de l'anti-reflux dévissable dans le col, du «vide-vite» avec son goulot fileté offrant une section interne relativement limitée pour la vidange, de la protubérance formant languette à enchâsser de façon amovible dans la coulisse ou un système analogue situé dans la semelle de la poignée.

10 La figure 2 selon l'invention est une vue en élévation avec demi-coupe d'une capsule à vis auto-jointante (avec lèvre). Intérieurement est enchâssée élastiquement une pastille désinfectante.

15 La figure 3 selon l'invention est une vue en élévation avec coupe partielle de la base de la poignée amovible montrant la coulisse ou un système analogue dans laquelle glisse la languette située sur le dessus de l'urinal de sécurité perfectionné.

20 La figure 4 selon l'invention est une vue d'arrière en élévation de l'urinal de sécurité perfectionné avec demi-coupe suivant AB montrant le profil de la section de la languette glissant dans la coulisse située sous la poignée.

La figure 5 selon l'invention est une vue d'arrière en élévation de la poignée
25 amovible laissant apercevoir en pointillés la section de sa coulisse avec le logement pour le téton.

La figure 6 selon l'invention est une vue en perspective cavalière à échelle très
30 réduite du porte-urinal de sécurité perfectionné constitué avec trois tiges courbées assemblées par soudure. Leurs extrémités sont garnies d'embouts en matière souple.

1 - Tel que représenté sur la figure 1, l'urinal de sécurité perfectionné (1) illustre certains éléments qui font son originalité. Un trou (2) situé au dessus du niveau normal de remplissage de l'urinal de sécurité perfectionné (1) est surmonté par un conduit (3) avec son filetage (4) établi notamment pour y visser une capsule auto-
5 jointante à lèvres (8) pour le boucher. Son anti-reflux (5) est vissé de façon étanche sur le col de l'urinal de sécurité perfectionné (1) pour permettre de retourner en tous sens ledit urinal normalement rempli, sans que son contenu ne s'échappe. Sa languette (6) permet à la coulisse (12) de la poignée de venir s'y agripper de façon amovible et d'être positionnée par le téton (7) après avoir été arrêtée par la
10 butée (13).

- Telle que représentée sur la figure 2, une capsule auto-jointante à vis (8), avec sa lèvre, destinée à être vissée sur le conduit (3) et à l'obturer de façon étanche avec sa lèvre conique (9). Une pastille (10) de produit désinfectant est enchâssée
15 élastiquement dans sa lèvre pour dépolluer l'intérieur de l'urinal de sécurité perfectionné (1).

- Telle que représentée sur la figure 3, la poignée amovible (11) avec sa coulisse (12) est dotée d'une butée (13) contre laquelle s'arrête la languette (6) positionnée
20 par son logement (14) lorsqu'en glissant le téton (7) pénètre dans ce dernier.

- Tel que représenté sur la figure 4 l'urinal de sécurité perfectionné (1) avec son anti-reflux (5), montre le profil de la languette (6) et du téton (7).

25 - Telle que représentée sur la figure 5, on voit la poignée (11) avec en pointillés sa coulisse (12) et son logement (14) pour recevoir le téton (7).

1 - Tel que représenté sur la figure 1, l'urinal de sécurité perfectionné (1) illustre certains éléments qui font son originalité. Un trou (2) situé au dessus du niveau normal de remplissage de l'urinal de sécurité perfectionné (1) est surmonté par un conduit (3) avec son filetage (4) établi notamment pour y visser une capsule auto-jointante à lèvres (8) pour le boucher. Son anti-reflux (5) est vissé de façon étanche sur le col de l'urinal de sécurité perfectionné (1) pour permettre de retourner en tous sens ledit urinal normalement rempli, sans que son contenu ne s'échappe. Sa languette (6) permet à la coulisse (12) de la poignée de venir s'y agripper de façon amovible et d'être positionnée par le téton (7) après avoir été arrêtée par la butée (13).

10 - Telle que représentée sur la figure 2, une capsule auto-jointante à vis (8), destinée à être vissée sur le conduit (3) et à l'obturer de façon étanche avec sa lèvre conique (9). Une pastille (10) de produit désinfectant est enchâssée élastiquement dans sa lèvre pour dépolluer l'intérieur de l'urinal de sécurité perfectionné (1).

15 - Telle que représentée sur la figure 3, la poignée amovible (11) avec sa coulisse (12) est dotée d'une butée (13) contre laquelle s'arrête la languette (6) positionnée par son logement (14) lorsqu'en glissant le téton (7) pénètre dans ce dernier.

20 - Tel que représenté sur la figure 4 l'urinal de sécurité perfectionné (1) avec son anti-reflux (5), montre le profil de la languette (6) et du téton (7).

25 - Telle que représentée sur la figure 5, on voit la poignée (11) avec en pointillés sa coulisse (12) et son logement (14) pour recevoir le téton (7).

1 - Tel que représenté sur la figure 1, l'urinal de sécurité perfectionné (1) illustre
certains éléments qui font son originalité. Un trou (2) situé au dessus du niveau
normal de remplissage de l'urinal de sécurité perfectionné (1) est surmonté par un
conduit (3) avec son filetage (4) établi notamment pour y visser une capsule auto-
5 jointante à lèvres (8) pour le boucher. Son anti-reflux (5) est vissé de façon étanche
sur le col de l'urinal de sécurité perfectionné (1) pour permettre de retourner en
tous sens ledit urinal normalement rempli, sans que son contenu ne s'échappe. Sa
languette (6) permet à la coulisse (12) de la poignée de venir s'y agripper de façon
amovible et d'être positionnée par le téton (7) après avoir été arrêtée par la
10 butée (13).

- Telle que représentée sur la figure 2, une capsule auto-jointante à vis (8), destinée
à être vissée sur le conduit (3) et à l'obturer de façon étanche avec sa lèvre conique
(9). Une pastille (10) de produit désinfectant est enchâssée élastiquement dans sa
15 lèvre pour dépolluer l'intérieur de l'urinal de sécurité perfectionné (1).

- Telle que représentée sur la figure 3, la poignée amovible (11) avec sa coulisse
(12) est dotée d'une butée (13) contre laquelle s'arrête la languette (6) positionnée
par son logement (14) lorsqu'en glissant le téton (7) pénètre dans ce dernier.

20 - Tel que représenté sur la figure 4 l'urinal de sécurité perfectionné (1) avec son
anti-reflux (5), montre le profil de la languette (6) et du téton (7).

- Telle que représentée sur la figure 5, on voit la poignée (11) avec en pointillés sa
25 coulisse (12) et son logement (14) pour recevoir le téton (7).

- 1 - Tel que représenté sur la figure 6, le porte-urinal constitué de 3 tiges (16), (17) et (18) judicieusement tordues, sont assemblées en 2 points pour former un berceau largement ouvert qui ainsi offre un accès aisé aux encoches de préhension ainsi qu'à la poignée (15) de l'urinal de sécurité perfectionné (1). La branche supérieure est
- 5 recourbée pour former un crochet (19) pour le suspendre. Pour que les extrémités des tiges ne soient pas blessantes, elles sont revêtues d'embouts (20) en matière souple. Ces 3 tiges sont de préférence en fer peint ou plastifié ou en acier inox.

REVENDECATIONS

- 1 1/ Urinal (1) en matière plastique transparente ou translucide capable de
supporter une température de stérilisation de 130°C contenant partiellement
dans son col un système anti-reflux (5) en matière plastique capable de supporter
une température de stérilisation de 130°C ayant approximativement la forme d'un
5 entonnoir dont le grand orifice est assemblé de façon étanche et amovible sur
le col de l'urinal (1) duquel il dépasse et dont le petit orifice débouche
sensiblement au coeur du volume restant dans ledit urinal (1) caractérisé par le fait
qu'il comporte vers le milieu de son dessus une languette (6) et un téton (7), qu'au
dessus de son niveau normal de remplissage et approximativement vers l'extrémité
10 opposée à son col, un trou (2) traverse sa paroi surmonté par un conduit (3) de
section limitée ceinturé par un filetage (4), canalise la vidange, forme goulot
verseur, oriente et dirige le jet de façon précise et se rebouche notamment avec une
capsule à vis.
- 15 2/ Système de bouchage suivant revendication 1, caractérisé par le fait qu'il s'agit
du bouchage du trou (2) par un bouchon quelconque notamment en silicone au lieu
d'une capsule à vis.
- 20 3/ Système de bouchage suivant revendication 1, caractérisé par le fait qu'au lieu qu'il
s'agisse d'une capsule à vis ordinaire, il s'agit d'une capsule à vis de sécurité.
- 4/ Système de bouchage suivant revendications 1 et 3 caractérisé par le fait que
lesdites capsules à vis sont jointées.
- 25 5/ Système de bouchage suivant revendications 1 et 3 caractérisé par le fait que
lesdites capsules à vis sont auto-jointantes.

REVENDECATIONS

- 1 1/ Urinal (1) en matière plastique transparente ou translucide capable de
supporter une température de stérilisation de 130°C contenant partiellement
dans son col un système anti-reflux (5) en matière plastique capable de supporter
une température de stérilisation de 130°C ayant approximativement la forme d'un
5 entonnoir dont le grand orifice est assemblé de façon étanche et amovible sur
le col de l'urinal (1) duquel il dépasse et dont le petit orifice débouche
sensiblement au cœur du volume restant dans ledit urinal (1) caractérisé par le fait
qu'il comporte vers le milieu de son dessus une poignée, et au dessus de son niveau
normal de remplissage et approximativement vers l'extrémité opposée à son col, un
10 trou (2) qui traverse sa paroi et est surmonté par un conduit (3) de section limitée
ceinturé par un filetage (4) qui canalise la vidange, forme goulot verseur, oriente et
dirige le jet de façon précise et se rebouche à l'aide d'un système de bouchage.
- 15 2/ Urinal suivant la revendication 1, caractérisé par le fait que le système de bouchage
est une capsule à vis.
- 3/ Urinal suivant la revendication 1, caractérisé par le fait que le système de bouchage
du trou (2) est un bouchon quelconque notamment en silicone.
- 20 4/ Urinal suivant la revendication 1, caractérisé par le fait que le système de bouchage
est une capsule à vis de sécurité.
- 5/ Urinal suivant les revendications 2 et 4 caractérisé par le fait que lesdites capsules à
vis sont jointées.
- 25 6/ Urinal suivant les revendications 2 et 4 caractérisé par le fait que lesdites capsules à
vis sont auto-jointantes.

- 1 6/ Système de bouchage suivant revendications 1, 3, 4 et 5 caractérisé par le fait que le pas de vis de ces capsules est un pas à gauche.
- 5 7/ Capsules de bouchage suivant revendications 1, 3, 4, 5 et 6 caractérisées par le fait que l'extérieur de ces capsules est strié ou comporte des pans coupés.
- 8/ Capsules de bouchage suivant revendications 1, 3, 4, 5, 6 et 7 caractérisées par le fait que ces capsules sont de préférence rouge ou blanche.
- 10 9/ Capsules de bouchage suivant revendications 1, 3, 4, 5, 6, 7 et 8 caractérisées par le fait que ces capsules sont d'une couleur différente de celle dudit urinal de sécurité perfectionné.
- 15 10/ Capsules de bouchage suivant revendications 1, 3, 4, 5, 6, 7, 8 et 9 caractérisées par le fait que la matière plastique qui les compose emmagasine des photons dans un lieu éclairé, et les restitue sous forme de rayons lumineux.
- 20 11/ Capsules de bouchage suivant revendications 1, 3, 4, 5, 6, 7, 8, 9 et 10 caractérisées par le fait que ces capsules comportent intérieurement une cavité contenant un produit désinfectant et / ou parfumé.
- 25 12/ Jauge suivant revendication 1 caractérisée par sa conception lui permettant d'arriver par le vide-vite jusqu'à proximité de l'extrémité de l'anti-reflux. Lorsqu'elle est mouillée, une alerte sonore retenti.
- 13/ Anti-reflux suivant revendication 1 caractérisé par le fait qu'il a une couleur différente de celle de l'urinal.
- 30 14/ Anti-reflux suivant revendication 1 caractérisé par le fait que son système de vissage est réalisé avec un pas à gauche.

- 1 7/ Urinal suivant l'une quelconque des revendications 2, 4, 5 et 6 caractérisé par le fait que le pas de vis de ces capsules est un pas à gauche.
- 5 8/ Urinal suivant l'une quelconque des revendications 2, 4, 5, 6 et 7 caractérisé par le fait que l'extérieur de ces capsules est strié ou comporte des pans coupés.
- 9/ Urinal suivant l'une quelconque des revendications 2, 4, 5, 6, 7 et 8 caractérisé par le fait que ces capsules sont de préférence rouge ou blanche.
- 10 10/ Urinal suivant l'une quelconque des revendications 2, 4, 5, 6, 7, 8 et 9 caractérisé par le fait que ces capsules sont d'une couleur différente de celle dudit urinal de sécurité perfectionné.
- 15 11/ Urinal suivant l'une quelconque des revendications 2, 4, 5, 6, 7, 8, 9 et 10 caractérisé par le fait que la matière plastique qui compose les capsules emmagasine des photons dans un lieu éclairé, et les restitue sous forme de rayons lumineux.
- 20 12/ Urinal suivant l'une quelconque des revendications 2, 4, 5, 6, 7, 8, 9, 10 et 11 caractérisé par le fait que ces capsules comportent intérieurement une cavité contenant un produit désinfectant et / ou parfumé.
- 25 13/ Urinal suivant la revendication 1 caractérisé par le fait qu'il comporte une jauge introduite par le vide-vite jusqu'à proximité de l'extrémité de l'anti-reflux et qui lorsqu'elle est mouillée déclenche une alerte sonore.
- 14/ Urinal suivant la revendication 1 caractérisé par le fait que l'anti-reflux a une couleur différente de celle de l'urinal.

- 1 15/ Urinal de sécurité perfectionné suivant revendications précédentes caractérisé par le fait qu'il possède une languette (6), un téton (7) et qu'il est équipé avec une poignée amovible qui comporte une coulisse (12), une butée (13), un logement (14) et un bossage (15).
- 5
- 16/ Urinal de sécurité perfectionné suivant revendications précédentes caractérisé par le fait qu'il possède une poignée fixe obtenue directement par découpage par les couteaux du moule et dont la double paroi ne fait plus qu'une seule paroi soudée à chaud par le pressage du moule, que le moule en se fermant peut exercer un effet de matriçage sur ladite poignée, en accroître l'épaisseur en certains points par des creux plus ou moins importants des demi-cavités dans lesquelles elle est accueillie.
- 10
- 17/ Urinal de sécurité perfectionné suivant revendications précédentes caractérisé par le fait que sa matière plastique a été greffée avec des substances de nature à le rendre antiseptique et / ou parfumé.
- 15
- 18/ Urinal de sécurité perfectionné suivant revendications précédentes caractérisé par le fait que toutes les parties qui le composent sont insubmersibles.
- 20
- 19/ Urinal de sécurité perfectionné suivant revendications précédentes caractérisé par le fait qu'il possède un porte-urinal perfectionné formant un berceau composé de trois tiges (16), (17) et (18), la tige (16) ouvrant largement ses bras, la tige (19) étant recourbée pour former un crochet et les extrémités des trois tiges sont garnies d'embouts en matière plastique souple.
- 25
- 20/ Urinal de sécurité perfectionné suivant revendications précédentes caractérisé par le fait que sa poignée amovible est de dimension telle qu'elle peut franchir le col dudit urinal.
- 30

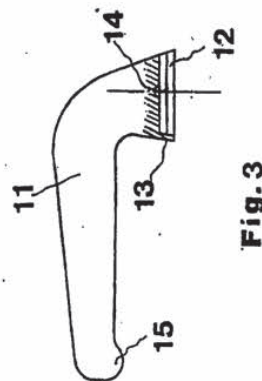
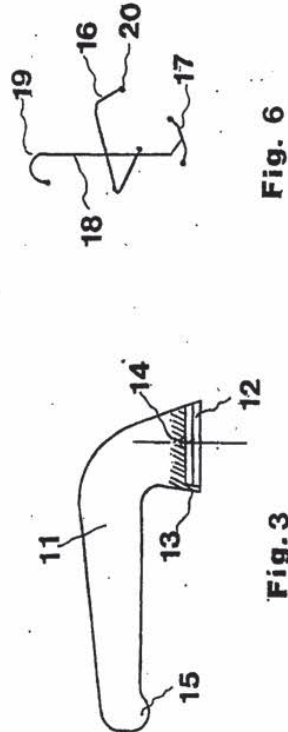
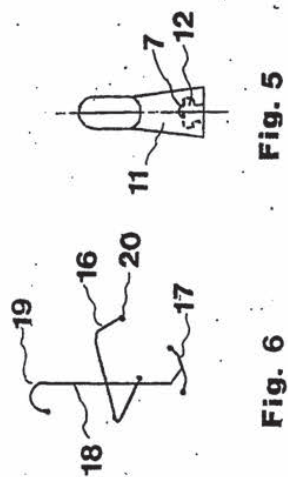
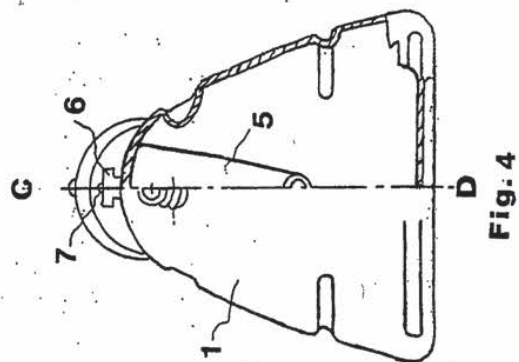
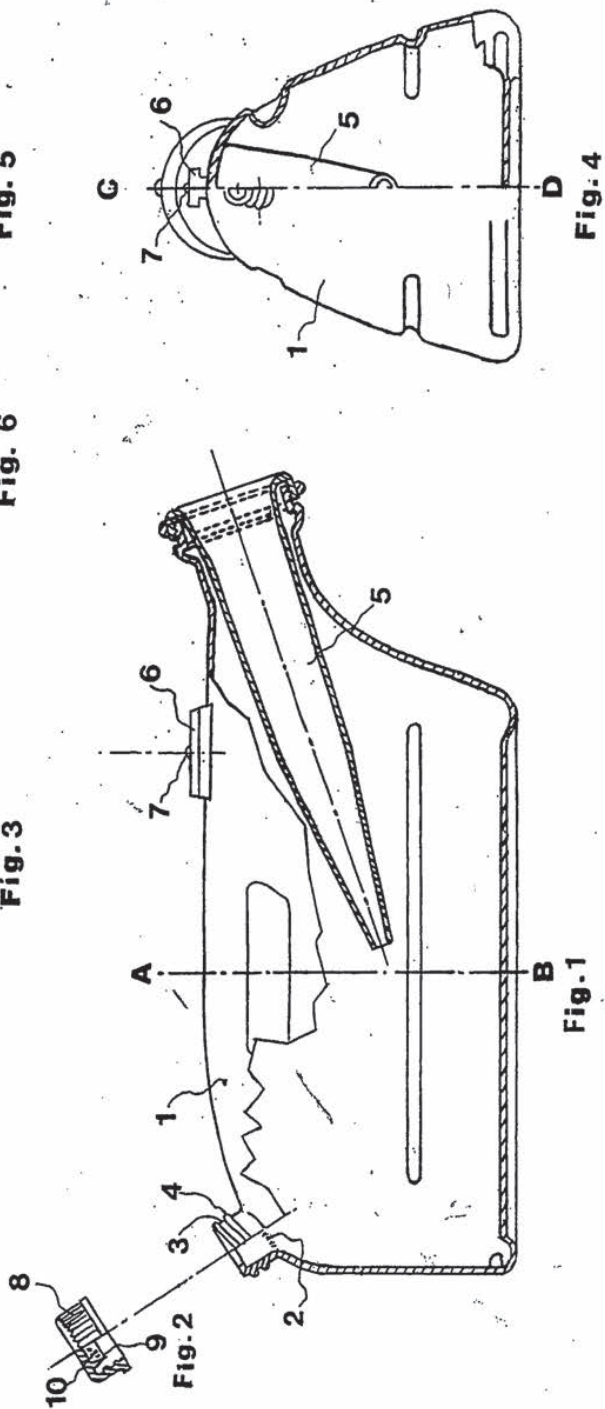


Jacques Maurice GOUGET

- 1 15/ Urinal suivant la revendication 14 caractérisé par le fait que l'anti-reflux possède un système de vissage réalisé avec un pas à gauche.
- 5 16/ Urinal de sécurité perfectionné suivant l'une quelconque des revendications précédentes caractérisé par le fait qu'il possède une languette (6), un téton (7) et qu'il est équipé avec une poignée amovible qui comporte une coulisse (12), une butée (13), un logement (14) et un bossage (15).
- 10 17/ Urinal de sécurité perfectionné suivant l'une quelconque des revendications 1 à 15 caractérisé par le fait qu'il possède une poignée fixe obtenue directement par découpage des couteaux du moules et dont la double paroi ne fait plus qu'une soudée à chaud par pressage du moule, que le moule en se fermant peut exercer un effet de matriçage sur ladite poignée en accroître l'épaisseur en certains points par des creux plus ou moins importants des demi-cavités dans lesquelles elle est
- 15 accueillie.
- 20 18/ Urinal de sécurité perfectionné suivant l'une quelconque des revendications précédentes caractérisé par le fait que sa matière plastique a été greffée avec des substances de nature à le rendre antiseptique et / ou parfumé.
- 25 19/ Porte-urinal pour un urinal de sécurité perfectionné suivant l'une quelconque des revendications précédentes caractérisé par le fait qu'il forme un berceau composé de trois tiges (16), (17) et (18), la tige (16) ouvrant largement ses bras, la tige (19) étant recourbée pour former un crochet et les extrémités des trois tiges sont
- 30 garnies d'embouts en matière souple.
- 20/ Urinal de sécurité perfectionné suivant la revendication 15 caractérisé par le fait que sa poignée amovible est de dimension telle qu'elle peut franchir le col dudit urinal.



Jacques Maurice GOUGÉ



08/737879



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
Address: ASSISTANT COMMISSIONER FOR PATENTS
Washington, D.C. 20231

#2

U.S. APPLICATION NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
08/737,879	GOUGET	J GOU0001-PCT
INTERNATIONAL APPLICATION NO.		
PCT/FR96/00412		
I.A. FILING DATE		PRIORITY DATE
03/19/96		03/24/95
DATE MAILED: 01/31/97		

KILPATRICK & CODY LLP
700 13TH STREET NW
SUITE 800
WASHINGTON DC 20005

5621

NOTIFICATION OF ACCEPTANCE OF APPLICATION UNDER 35 U.S.C. 371
AND 37 CFR 1.494 OR 1.495

1. The applicant is hereby advised that the United States Patent and Trademark Office in its capacity as ☐ a Designated Office (37 CFR 1.494), ☒ an Elected Office (37 CFR 1.495), has determined that the above identified international application has met the requirements of 35 U.S.C. 371, and is ACCEPTED for national patentability examination in the United States Patent and Trademark Office.

2. The United States Application Number assigned to the application is shown above and the relevant dates are:

22 NOV 1996
35 U.S.C. 102(e) DATE

22 NOV 1996
DATE OF RECEIPT OF
35 U.S.C. 371 REQUIREMENTS

A Filing Receipt (PTO-103X) will be issued for the present application in due course. THE DATE APPEARING ON THE FILING RECEIPT AS THE "FILING DATE" IS THE DATE ON WHICH THE LAST OF THE 35 U.S.C. 371(C) REQUIREMENTS HAS BEEN RECEIVED IN THE OFFICE. THIS DATE IS SHOWN ABOVE. The filing date of the above identified application is the international filing date of the international application (Article 11(3) and 35 U.S.C. 363). Once the Filing Receipt has been received, send all correspondence to the Group Art Unit designated thereon.

3. ☒ A request for immediate examination under 35 U.S.C. 371(f) was received on 22 NOV 1996 and the application will be examined in turn.

4. The following items have been received:

- ☒ U.S. Basic National Fee.
- ☒ Copy of the international application in:
 - ☒ a non-English language.
 - ☒ English.
- ☒ Translation of the international application into English.
- ☒ Oath or Declaration of inventor(s) for DO/EO/US.
- ☒ Copy of Article 19 amendments. ☐ Translation of Article 19 amendments into English.

The Article 19 amendments ☐ have ☐ have not been entered.
- ☐ The International Preliminary Examination Report in English and its Annexes, if any.
- ☐ Translation of Annexes to the International Preliminary Examination Report into English.

The Annexes ☐ have ☐ have not been entered.
- ☐ Preliminary amendment(s) filed _____ and _____
- ☒ Information Disclosure Statement(s) filed 22 NOV 1996 and _____
- ☐ Assignment document.
- ☐ Power of Attorney and/or Change of Address.
- ☐ Substitute specification filed _____
- ☒ Verified Statement Claiming Small Entity Status.
- ☒ Priority Document.
- ☒ Copy of the International Search Report ☒ and copies of the references cited therein.
- ☐ Other:

Applicant is reminded that any communication to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above. (37 CFR 1.5)

John M. Wallace
Patent Specialist

Telephone: (703) 305-3136

FORM PCT/DO/EO/903 (September 1996)

BEST COPY

U.S. Appl. No. 08/73,879 DO/US WORKSHEET

International

ppl No.

3890/00412

Application filed by: ☐ 20 months ☐ 30 months

INTERNATIONAL APPLICATION PAPERS IN THE APPLICATION FILE:

- | | |
|--|---|
| ☒ International application (RECORD COPY) | ☐ Request form PCT/RO/101 |
| ☐ Article 19 amendments | ☐ PCT/IB/302 |
| ☐ PCT/IB/331 | ☒ PCT/ISA/210-Search Report |
| ☐ PCT/IPEA/409 IPER (PCT/IPEA/416 on front) | ☒ Search Report references |
| ☐ Annexes to 409 | ☐ Other _____ |
| ☒ Priority document(s) No. <u>1</u> | |
| ☐ INTERNATIONAL APPLICATION ON DOUBLE SIDED PAPER (COPIES MADE) | |

RECEIPTS FROM THE APPLICANT: (other than checked above)

- | | |
|--|--|
| ☒ Basic National Fee (paid or authorized to charge) | ☐ Preliminary amendment(s) filed |
| ☒ Translation of international application as filed: | |
| ☒ Description | ☒ Information Disclosure Statement |
| ☒ Claims | ☐ Assignment document |
| ☐ Words in the drawing figure(s) | ☐ Power of attorney/Change of address |
| ☐ Article 19 amendments | ☐ Substitute specification |
| ☐ Annexes to 409 | ☐ Verified small status claim |
| ☐ Oath / Declaration | ☐ Other _____ |
| ☐ DNA diskette | |

Notes:

35 U.S.C. 371 - Receipt of Request (PTO-1390) **22 NOV 1996**

Date acceptable oath / declaration received **22 NOV 1996**

Date complete 35 U.S.C 371 requirements met **22 NOV 1996**

102(e) Date **22 NOV 1996**

Date of completion of DO/EO 906 - Notification of Missing 102(e) Requirements

Date of completion of DO/EO 907 - Notification of Acceptance for 102(e) date

Date of completion of DO/EO 911 - Application accepted under 35 U.S.C. 1.11

Date of completion of DO/EO 905 - Notification of Missing Requirements

Date of completion of DO/EO 916 - Notification of Defective Response

Date of completion of DO/EO 903 - Notification of Acceptance **11/23/96**

Date of completion of DO/EO 909 - Notification of Abandonment

WIPO Publication

Publication No.

WO 96/29972

Publication Date

2 Oct 96

Publication Language

French

Not Published

☐ U.S. only

☐ Designated

☐ EP request

Screening done by:

Fredrick Smith

DO/EO BIBLIOGRAPHIC DATA ENTRY

SERIAL NUMBER:	06 / 737979	RECEIPT DATE:	11 / 22 / 96
SA NUMBER:	PO7 / FR96 / 00412	IN FILING DATE:	02 / 19 / 96
FAMILY NAME:	WOLBERT	LEGAL NAME:	
GIVEN NAME:	JALGUES	LEGAL RELATIONSHIP:	
PROBATION NUMBER:		RECEIPT DATE:	11 / 22 / 96
NO BASIC FEE (Y/N):	N	AS DESIGNATED ONLY (Y/N):	
CUSTOMER DOCKET NUMBER:	6006001-P37	CLASSIFICATION:	
CORRESPONDENCE NAME/ADDRESS:		CUSTOMER NUMBER:	TELEPHONE
NAME: KILPATRICK & CODY LLP			
700 13TH STREET NW			
STREET: SUITE 800			
CITY: WASHINGTON			
STATE/COUNTRY: DC		ZIP:	20005
APPLICATION TITLES:			
IMPROVED SAFETY URINAL			

TAB TO LAST POSITION, PUSH SEND

BEST COPY



**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office**

Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
08/737,879	11/22/96	GOUGET	J GOU0001-PCT

KILPATRICK & CODY LLP
790 13TH STREET NW
SUITE 800
WASHINGTON DC 20005

F1M1/0729

EXAMINER

WALCZAK, D

ART UNIT

PAPER NUMBER

3105

5

DATE MAILED:

07/29/97

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary	Application No. 08/737,879	Applicant(s) Gouget
	Examiner Mr. David J. Walczak	Group Art Unit 3105

☒ Responsive to communication(s) filed on Nov 22, 1996

☐ This action is FINAL.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire three month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claims

☒ Claim(s) 1-21 is/are pending in the application.

Of the above, claim(s) _____ is/are withdrawn from consideration.

☐ Claim(s) _____ is/are allowed.

☒ Claim(s) 1, 2, 10-14, 16, and 18-21 is/are rejected.

☒ Claim(s) 3-9, 15, and 17 is/are objected to.

☐ Claims _____ are subject to restriction or election requirement.

Application Papers

☒ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☒ The drawing(s) filed on Nov 22, 1996 is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.

☒ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been

☐ received.

☐ received in Application No. (Series Code/Serial Number) _____

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

☐ Notice of References Cited, PTO-892

☒ Information Disclosure Statement(s), PTO-1449, Paper No(s). 4

☐ Interview Summary, PTO-413

☒ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

Serial Number: 08/737,879

Page 2

Art Unit: 3105

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the fixed handle (claim 18) must be shown or the features canceled from the claim. No new matter should be entered.

Specification

2. The disclosure is objected to because of the following informalities: On page 1, line 11, "the prehension notches" are referred to, however, it is not clear where on the device these notches are located. Appropriate correction is required.
3. 35 U.S.C. 112, first paragraph, requires the specification to be written in "full, clear, concise, and exact terms." The specification is replete with sentences and phrases which are not clear, concise and exact. The specification should be revised carefully in order to comply with 35 U.S.C. 112, first paragraph. Examples of some unclear, inexact or verbose expressions used in the specification are: On page 1, line 14, "especially be unscrewing" renders that sentence unclear and on page 2, lines 10 and 11, the sentence therein is unclear, i.e., what element is "it" referring to?. Similar such vague and unclear sentences are found repeatedly in the specification. It is the Examiner's opinion that a substitute specification should be submitted in response to this Office Action along with a statement which cites that there is no new matter therein and a

Serial Number: 08/737,879

Page 3

Art Unit: 3105

marked-up copy of the original specification. Further, the Applicant should make certain that all of the claim subject matter is present in the specification.

Claim Objections

4. Claims 3-9, 15 and 17 are objected to under 37 CFR 1.75© as being in improper form because a multiple dependent claim must not depend from any other multiple dependent claim and must refer to other claims in the alternative only.. See MPEP § 608.01(n). Accordingly, the claims 3-9, 15 and 17 not been further treated on the merits.

Claim Rejections - 35 USC § 112

5. Claims 1, 2, 10-14, 16 and 18-21 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The specification does not clearly point out how the anti-back flow system operates. The specification should clearly point out how element 5 operates to prevent back flow.

6. Claims 1, 2, 10-14, 16 and 18-21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. These claims are replete with indefinite language which renders the claims difficult to examine. The claims should be carefully reviewed and revised such

that a complete and operative device is clearly set forth therein. The Applicant should make certain that all of the claimed elements have a proper structural antecedent basis defined therefore and that all of the necessary structural connections between the elements are well defined. For example, in claim 1, line 1 the phrase "translucent or transparent" is indefinite in that alternative structures are defined and an antecedent basis for "its handles" should be defined. Further, "its handles" is indefinite in that the device includes only one handle. Further in regard to claim 1, an antecedent basis for "the heart", "the volume" and "the middle" should be defined.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 1, 2, 10, 12-14, 19 and 21 are, as best understood, rejected under 35 U.S.C. 103(a) as being unpatentable over Chenault. In regard to claims 1, 10, 12, 19 and 20 the Chenault reference discloses a urinal having an anti-back flow system 2, a "removable" handle 12 which appears to be able to pass through the neck of the urinal, a screw capsule 8 and a plug system 4. Although the Chenault reference does not disclose the particular material use to make the device, i.e., what sterilization temperature it can endure and whether or not a clear material is used, it is the Examiner's position that any suitable material having any suitable color(s) can be

Serial Number: 08/737,879

Page 5

Art Unit: 3105

used with effecting the overall operation of the device. In regard to claims 2, 13 and 14, although the Chenault reference does not specify what type of screw threads are employed for the cap 8 and the plug 4, it is the Examiner's position that any suitable threading could be employed without effecting the overall operation of the device. In regard to claim 18, the handle 12 is a solid handle. It is further noted that the method of making the handle is not germane to the issue of patentability of the device itself. Accordingly, this limitation has not been given patentable weight.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The Hanifl et al., Haq, DeBurgh and Nakao et al. References are cited for disclosing pertinent structures.
10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dave Walczak whose telephone number is (703) 308-0608.

D Walczak
July 24, 1997


DAVID J. WALCZAK
PRIMARY EXAMINER
GROUP 3100

Notice of References Cited	Application No. 08/737,879	Applicant(s) Gouget	
	Examiner Mr. David J. Walczak	Group Art Unit 3105	Page 1 of 1

U.S. PATENT DOCUMENTS					
	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS
A	5,358,148	10/25/94	Haniff et al.	4	144.1
B	5,331,689	7/26/94	Haq	4	144.1
C	4,091,476	5/30/78	DeBurgh	4	144.3
D	4,050,103	9/27/77	Nakao et al.	4	144.3
E					
F					
G					
H					
I					
J					
K					
L					
M					

FOREIGN PATENT DOCUMENTS						
	DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUBCLASS
N						
O						
P						
Q						
R						
S						
T						

NON-PATENT DOCUMENTS		
	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
U		
V		
W		
X		

737879

UNITED STATES PATENT AND TRADEMARK OFFICE

This notice is to be affixed to all drawings regardless of whether they are submitted in paper or electronic form. The Examiner will review the drawings for compliance with the regulations. Direct telephone inquiries concerning this review is the Drawing Review Branch, 703-305-8404.

The drawings filed (insert date) 11/22/96 are

A. ☒ not objected to by the Draftsperson under 37 CFR 1.84 or 1.152.

B. ☐ objected to by the Draftsperson under 37 CFR 1.84 or 1.152 as indicated below. The Examiner will require submission of new, corrected drawings when necessary. Corrected drawings must be submitted according to the instructions on the back of this Notice.

- DRAWINGS.** 37 CFR 1.84(a): Acceptable categories of drawings:
 - Black ink. Color.
 - Not black solid lines. Fig(s) _____
 - Color drawings are not acceptable until petition is granted. Fig(s) _____
- PHOTOGRAPHS.** 37 CFR 1.84(b)
 - Photographs are not acceptable until petition is granted. Fig(s) _____
 - Photographs not properly mounted (must use bristol board or photographic double-weight paper). Fig(s) _____
 - Poor quality (half-tone). Fig(s) _____
- GRAPHIC FORMS.** 37 CFR 1.84 (d)
 - Chemical or mathematical formula not labeled as separate figure. Fig(s) _____
 - Group of waveforms not presented as a single figure, using common vertical axis with time extending along horizontal axis. Fig(s) _____
 - Individuals waveform not identified with a separate letter designation adjacent to the vertical axis. Fig(s) _____
- TYPE OF PAPER.** 37 CFR 1.84(c)
 - Paper not flexible, strong, white, smooth, nonshiny, and durable. Sheet(s) _____
 - Erasures, alterations, overwritings, interlineations, cracks, creases, and folds copy machine marks not accepted. Fig(s) 1-6
 - Mylar, velum paper is not acceptable (too thin). Fig(s) _____
- SIZE OF PAPER.** 37 CFR 1.84(f): Acceptable sizes:

21.6 cm. X 35.6 cm. (8 1/2 in. X 14 in.)	21.6 cm. X 29.7 cm. (8 1/2 in. X 11 7/8 in.)	21.6 cm. X 29.7 cm. (8 1/2 in. X 11 7/8 in.)	(DIN Size A4)
21.6 cm. (8 1/2 in.)	25 cm. (9 7/8 in.)	25 cm. (9 7/8 in.)	2.5 cm.
21.6 cm. (8 1/2 in.)	64 cm. (25 1/4 in.)	64 cm. (25 1/4 in.)	2.5 cm.
21.6 cm. (8 1/2 in.)	64 cm. (25 1/4 in.)	64 cm. (25 1/4 in.)	1.5 cm.
21.6 cm. (8 1/2 in.)	64 cm. (25 1/4 in.)	64 cm. (25 1/4 in.)	1.0 cm.
- MARGINS.** 37 CFR 1.84(g): Acceptable margins:

Paper size

Margins do not conform to chart above.

Sheet(s) _____

Top (T) _____ Left (L) _____ Right (R) _____ Bottom (B) _____
- VIEWS.** 37 CFR 1.84(h)

REMINDER: Specification may require revision to correspond to drawing changes.

 - All views not grouped together. Fig(s) _____
 - Views connected by projection lines or lead lines. Fig(s) _____
 - Partial views. 37 CFR 1.84(h) 2
- ARRANGEMENT OF VIEWS.** 37 CFR 1.84(i)
 - View and enlarged view not labeled separately or properly. Fig(s) _____
 - Sectional views. 37 CFR 1.84 (h) 3
 - Hatching not indicated for sectional portions of an object. Fig(s) _____
 - Cross section not drawn same as view with parts in cross section with regularly spaced parallel oblique strokes. Fig(s) _____
- SCALE.** 37 CFR 1.84(k)
 - Scale not large enough to show mechanism with crowding when drawing is reduced in size to two-thirds in reproduction. Fig(s) _____
 - Indication such as "actual size" or scale 1/2" not permitted. Fig(s) _____
- CHARACTER OF LINES, NUMBERS, & LETTERS.** 37 CFR 1.84(l)
 - Lines, numbers & letters not uniformly thick and well defined, clean, durable and black (except for color drawings). Fig(s) 1-6
- SHADING.** 37 CFR 1.84(m)
 - Solid black shading areas not permitted. Fig(s) _____
 - Shade lines, pale, rough and blurred. Fig(s) _____
- NUMBERS, LETTERS, & REFERENCE CHARACTERS.** 37 CFR 1.84(p)
 - Numbers and reference characters not plain and legible. 37 CFR 1.84(p)(1) Fig(s) _____
 - Numbers and reference characters not oriented in same direction as the view. 37 CFR 1.84(p)(1) Fig(s) _____
 - English alphabet not used. 37 CFR 1.84(p)(2) Fig(s) _____
 - Numbers, letters, and reference characters do not measure at least .32 cm. (1/8 inch) in height. 37 CFR(p)(3) Fig(s) _____
- LEAD LINES.** 37 CFR 1.84(q)
 - Lead lines cross each other. Fig(s) _____
 - Lead lines missing. Fig(s) _____
- NUMBERING OF SHEETS OF DRAWINGS.** 37 CFR 1.84(r)
 - Sheets not numbered consecutively, and in Arabic numerals, beginning with number 1. Sheet(s) _____
- NUMBER OF VIEWS.** 37 CFR 1.84(u)
 - Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) _____
 - View numbers not preceded by the abbreviation Fig. Fig(s) _____
- CORRECTIONS.** 37 CFR 1.84(w)
 - Corrections not made from prior PTO-948. Fig(s) _____
- DESIGN DRAWING.** 37 CFR 1.152
 - Surface shading shown not appropriate. Fig(s) _____
 - Solid black shading not used for color contrast. Fig(s) _____

COMMENTS:

ATTACHMENT TO PAPER NO. 5

REVIEWER DCR

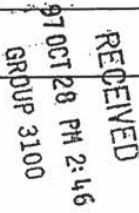
DATE 12/26/97

PTO Copy

AMENDMENT TRANSMITTAL LETTER				Docket Number: GOU0001-PCT	
Application Number 08/737,879	Filing Date November 22, 1996		Examiner D. Walczak	Art Unit 3105	
Invention Title IMPROVED SAFETY URINAL			Inventor(s) Jacques GOUGET		
Address to: Assistant Commissioner of Patents Washington D.C. 20231 Transmitted herewith is an amendment in the above-identified application.					
I. The filing fee has been calculated as shown below:					
	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT NUMBER EXTRA	RATE (\$)
TOTAL CLAIMS	20	minus	20	0	22.00
INDEPENDENT CLAIMS	2	minus	3	0	82.00
MULTIPLE DEPENDENT CLAIM ADDED					250.00
					TOTAL
If applicant is a small entity under 37 C.F.R. §§ 1.9 and 1.27, then divide total fee by 2, and enter amount here.					SMALL ENTITY TOTAL
II. The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. 1.16 and 1.17 which may be required during the entire pendency of this application, or to credit any overpayment, to Deposit Account No. 11-0855. A duplicate copy of this sheet is enclosed.					
III. Applicants' undersigned attorney may be reached by telephone in our Washington, D.C. Office at: (202) 508-5800 All correspondence should continue to be directed to our below-listed address.					
KILPATRICK STOCKTON, LLP Suite 800 700 13th Street, N.W. Washington, D.C. 20005 (202) 508-5800 (telephone) (202) 508-5858 (facsimile) October 24, 1997			By:  Michael D. Bednarek Registration No.: 32, 329		



RECEIVED
 97 OCT 28 PM 2:45
 GROUP 3100

AMENDMENT TRANSMITTAL LETTER			Docket Number: GOU0001-PCT			
Application Number 08/737,879	Filing Date November 22, 1996	Examiner D. Walczak	Art Unit 3105			
Invention Title IMPROVED SAFETY URINAL			Inventor(s) Jacques GOUGET			
Address to: Assistant Commissioner of Patents Washington D.C. 20231			 			
Transmitted herewith is an amendment in the above-identified application.						
I. The filing fee has been calculated as shown below:						
	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT NUMBER EXTRA	RATE (\$)	FEE (\$)
TOTAL CLAIMS	20	minus	20	0	22.00	
INDEPENDENT CLAIMS	2	minus	3	0	82.00	
MULTIPLE DEPENDENT CLAIM ADDED					250.00	
					TOTAL	
If applicant is a small entity under 37 C.F.R. §§ 1.9 and 1.27, then divide total fee by 2, and enter amount here.					SMALL ENTITY TOTAL	
II. The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. 1.16 and 1.17 which may be required during the entire pendency of this application, or to credit any overpayment, to Deposit Account No. 11-0855. A duplicate copy of this sheet is enclosed. III. Applicants' undersigned attorney may be reached by telephone in our Washington, D.C. Office at: (202) 508-5800 All correspondence should continue to be directed to our below-listed address. By:  Michael D. Bednarek Registration No.: 32, 329 KILPATRICK STOCKTON, LLP Suite 800 700 13th Street, N.W. Washington, D.C. 20005 (202) 508-5800 (telephone) (202) 508-5858 (facsimile) October 24, 1997 34DB/lenb/C00094.094019/23516						

GOU0001-PCT



PATENT

G A +
Sub. Spec. (M)
10-29-97
H. P.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Jacques GOUGET

Group Art Unit: 3105

Serial No. 08/737,879

Examiner: D. Walczak

Filed: November 22, 1996

For: IMPROVED SAFETY URINAL

AMENDMENT

Assistant Commissioner of Patents
Washington, D.C. 20231

Sir:

In response to the Office Action mailed July 29, 1997, please enter the following amendment. In the specification, please substitute the attached substitute specification for the specification originally filed in the above-identified application pursuant to 37 C.F.R. § 1.125, as required by the Office Action. The substitute specification contains no new matter. A redline version of the specification is attached for the Examiner's convenience.

IN THE CLAIMS

Please cancel claims 1-21 without prejudice or disclaimer.

RECEIVED
97 OCT 28 PM 2:16
GROUP 3100

Serial No. 08/737,879
Art Unit: 3105

Please enter the following new claims 22-41:

22. A urinal, comprising:

a urinal body with an interior, a planar base, an elongated neck portion with an axis of elongation having an opening for receiving an anti-backflow element, and a conduit opening located above the normal filling level of the urinal;

stopping means with an outside contour and an inner contour;

conduit attachment means for attaching the stopping means to the conduit opening such that a water-tight seal forms;

an anti-backflow element insertable within the urinal neck, the anti-backflow element having a body comprising a funnel shape with a larger end opening and a smaller end opening; and

neck attaching means for attaching the larger end opening of the anti-backflow element to the neck of the urinal body such that a water-tight seal forms and such that the smaller end opening is oriented so as to overhang into the urinal body interior and the smaller end opening is situated at the center point of the urinal body.

23. The urinal according to claim 22 further comprising:

a handle attachment means on the urinal body; and

a handle attachable to the handle attachment means.

Serial No. 08/737,879
Art Unit: 3105

24. The urinal according to claim 1, wherein the conduit attachment means comprises a left-hand threading means.
25. The urinal according to claim 1, wherein the conduit attachment means further includes a self-jointing safety feature.
26. The urinal according to claim 1, wherein the exterior contour of the stopping means comprises grooves.
27. The urinal according to claim 1, wherein the exterior contour of the stopping means comprises cut off corners.
28. The urinal according to claim 1, wherein the color of the exterior contour of the stopping means is distinguishable from the color of the urinal body.
29. The urinal according to claim 1, wherein the stopping means comprises a phosphorescent material.

Serial No. 08/737,879
Art Unit: 3105

30. The urinal according to claim 1, wherein the stopping means further comprises a lip within the inner contour of the stopping means such that a cavity for holding a tablet of perfumed product is formed.

31. The urinal according to claim 1, further comprising a gauge having an end section introduceable via the conduit opening such that the gauge extends into the interior of the urinal body to a point wherein the end of the gauge is suspended in the proximity of the narrow end of the anti-backflow element, the gauge comprising means such that when the end of the gauge is wetted the gauge triggers an audio alarm.

32. The urinal according to claim 1, wherein the color of the anti-backflow element is distinguishable from the color of the urinal body.

33. The urinal according to claim 1, wherein the neck attachment means comprises a left-hand threading means.

34. A urinal according to claim 1, wherein the axis of the neck is inclined relative to the plane of the base of the urinal at an angle between 10 and 30 degrees.

Serial No. 08/737,879
Art Unit: 3105

35. A urinal according to claim 23, wherein the handle attachment feature comprises a tab, a stub, a slide, a stop, and a housing.

36. A urinal according to claim 23, wherein the handle comprises extended bosses such that the bosses provide points upon which the fingers of a hand grasping the handle rest.

37. A urinal according to claim 1, wherein the material of construction of the urinal comprises plastic material grafted with substances of a nature so as to render the urinal antiseptic.

38. A urinal according to claim 1, wherein the material of construction of the urinal comprises plastic material grafted with substances of a nature so as to render the urinal perfumed.

39. A urinal according to claim 23, wherein the handle has dimensions such that the handle is insertable into the opening in the neck of the urinal body.

40. The urinal according to claim 1, further comprising a handle attached to the urinal body.

Serial No. 08/737,879
Art Unit: 3105

41. A urinal holder comprising:

a first rod having a midpoint, a first end, and a second end, the first end curvedly hooked and the second end angled;

a second rod having a midpoint, a first end, and a second end, the first and second ends angled;

attachment means for attaching the second rod at its midpoint to the midpoint of the first rod;

21 a third rod having a midpoint, a first end, and a second end, the first and second ends angled; and

attachment means for attaching at its midpoint to the second end of the first rod, such that the connected rods form a cradle for holding a urinal with a base of the third rod, two arms of the second rod, and a spine of the first rod.

REMARKS

This is in full and timely response to the final Office Action of May 13, 1997. Reconsideration of this application is respectfully requested in view of the foregoing amendments and the following remarks.

By the foregoing amendment, applicant has submitted a substitute specification and replaced original claims 1-21 with new claims 22-41. The substitute specification contains

Serial No. 08/737,879
Art Unit: 3105

no new matter. Thus, claims 22-41 are currently pending in the application. In the Office Action of July 29, 1997, the Examiner rejected claims 1, 2, 10-14, 16, and 18-21 and objected to claims 3-9, 15, and 17. As noted above, claims 1-21 have been canceled without prejudice or disclaimer. New claims 22-41 particularly drawn to the subject matter of the present invention have been added by amendment.

In the Office Action of July 29, 1997, the Examiner objected to claims 3-9, 15, and 17 under 37 C.F.R. § 1.75 as allegedly being in improper form as multiple dependent claims depending on other multiple dependent claims and for not referring to other claims in the alternative only. Claims 3-9, 15, and 17 have been canceled without prejudice or disclaimer. New claims 22-41 have been added by amendment. No multiple dependent claims are included in new claims 22-41.

The Examiner also rejected claims 1, 2, 10-14, 16, and 18-21 under 35 U.S.C. § 112, first paragraph, as containing subject matter not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The specification allegedly did not clearly point out how the anti-back flow system operates and did not clearly point out how element 5 operates to prevent back flow.

In addition, claims 1, 2, 10-14, 16, and 18-21 under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the

Serial No. 08/737,879

Art Unit: 3105

subject matter that applicant regards as the invention. In particular, the claims were allegedly replete with indefinite language rendering the claims difficult to examine.

Claims 1, 2, 10-14, 16, and 18-21 have been canceled without prejudice or disclaimer. A substitute specification is submitted with this amendment. New claims 22-41 have been added by amendment. Applicant submits that new claims 22-41 are fully supported by both the original specification and the substitute specification in such a manner to enable one skilled in the art to make and/or use the invention. In addition, applicant submits that new claims 22-41 particularly point out and distinctly claim the subject matter that the applicant regards as the invention.

The Examiner also rejected claims 1, 2, 10-14, 16, and 18-21 under 35 U.S.C. § 102(a) as being unpatentable over Chenault. In particular, the Examiner alleged that, with regard to claims 1, 10, 12, 19, and 20, Chenault discloses a urinal having an anti-back flow system, a "removable" handle, which appears to be able to pass through the neck of the urinal, a screw capsule, and a plug system. Further, the Examiner alleged that the present invention's use of particular materials to make the device and use of suitable materials and colors do not affect overall operation of the device. With regard to claims 2, 13, and 14, the Examiner alleges that any suitable threading could be employed without affecting the overall operation of the device. With regard to claim 18, the Office Action alleges that the method of making the handle is not germane to the issue of patentability of the device itself.

Serial No. 08/737,879
Art Unit: 3105

Claims 1, 2, 10-14, 16, and 18-21 have been canceled without prejudice or disclaimer. New claims 22-41 have been drafted so as to overcome the rejection of the Office Action.

Applicant respectfully points out that the Chenault reference does not disclose a removable handle and does not disclose a removable handle of dimensions so as to pass through the opening in the neck of the urinal. Chenault simply discloses that "handle 12 is affixed rigidly to container 1." (column 1, lines 24-25).

Applicant also respectfully points out that a number of features disclosed and now claimed in pending claims 22-41 are neither disclosed nor suggested by Chenault. In particular, new independent claim 22 includes an anti-backflow element and neck attaching means such that the anti-backflow element extends into the urinal body so that its smaller end is situated at the center point of the urinal body. This feature, which is important for allowing maximum filling of the urinal while preventing spillage as the urinal is moved about and rotated to any angle (substitute specification p. 8, lines 14-22), is neither described nor suggested by Chenault or by other cited art.

In addition, new dependent claims 23-40 claim a number of other features not described or suggested by the cited art. These features include an attachable handle, handle attachment features, an attached handle, handle grip features, dimensions of the handle so that it may be inserted into the urinal body, a left-handed thread for the conduit attachment, a self-jointing safety feature for the conduit attachment, grooves on the exterior of the stopping means, cut off corners on the exterior of the stopping means, particular coloring and

Serial No. 08/737,879
Art Unit: 3105

phosphorescent material of construction for particular features of the urinal, grafting of substances within the plastic of the urinal for antiseptic or perfumed purposes, a cavity in the stopping means for holding a perfumed tablet, an opening for holding a gauge near the small end of the anti-backflow device to signal when the urinal is full, a left-handed thread for the anti-backflow attachment, and a particularly advantageous angle between the urinal base and neck.

Applicant respectfully submits that the type of attachment means for various parts of the urinal, as well as particular materials of construction and colors, are important aspects of the present invention. As pointed out in the substitute specification (p. 6, lines 14-23), the direction of threading, as well as the self-jointing safety feature are important for preventing untimely emptying of the urinal by, for example, a bedridden patient not having all of his or her mental facilities. Distinct coloring is useful for drawing attention to particular features such as the cap (p. 7, lines 9-15), and phosphorescent coloring is useful for drawing attention to features in the dark (p. 7, lines 16-20). Grafting of antiseptic or perfumed materials into the materials of construction of the urinal are useful for hygiene purposes (p. 10, lines 20-23).

New claim 41 is an independent claim for the urinal holder for the urinal of the present invention. This feature is not described, taught, or suggested by Chenault or other art of record.

Serial No. 08/737,879
Art Unit: 3105

New claims 22-41 thus set forth significant features not claimed, described, taught, or suggested by Chenault or other art of record. Accordingly, reconsideration and withdrawal of the rejection under § 102 is respectfully requested.

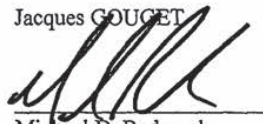
In view of the foregoing remarks, Applicant respectfully submits that the claims remaining in this application are in condition for allowance. Prompt issuance of a Notice of Allowance is earnestly solicited.

Should the Examiner determine that any further action is necessary to place this application into even better form, he is encouraged to telephone the Applicant's undersigned representative at the number listed below.

Respectfully submitted,

Jacques GOUGET

By:


Michael D. Bednarek
Registration No. 32,329

KILPATRICK STOCKTON LLP
Suite 800
700 13th Street, N.W.
Washington, D.C. 20005
(202) 508-5800

Date: October 29, 1997

WO 96/29972
PCT/FR96/00412

SUBSTITUTE SPECIFICATION PURSUANT TO 37 C.F.R. § 1.125

5

IMPROVED SAFETY URINAL

FIELD OF THE INVENTION

10

The present invention relates to the field of safety urinals. In particular, the present invention describes features for a transparent plastic material urinal that is able to withstand sterilization temperature above 130°C, has an anti-backflow system that includes a screw-type release, and an improved feature for quick emptying that prevents release of odors.

15

BACKGROUND OF THE INVENTION

Existing art for safety urinals includes devices made of transparent or translucent plastic material that are able to endure a sterilization temperature of 130°C. In addition, existing art for urinals includes anti-backflow systems that are removable by unscrewing to permit cleaning of the unit; this feature is indispensable for emptying the urinal.

20

A drawback of existing urinals is that, during the emptying of the contents of a urinal via the large orifice of the neck typical of these urinals, the confined internal air of the urinals typically escaped unpleasantly toward the handler. Further, whether they involve a detachable or a fixed handle, existing urinal manufacturing techniques that involve blowing are such as to pose problems of tightness of fit in the case of manufactures done by mass production.

25

OK
for
emptying
NW 7/30/97

Examples of existing art for urinals, also referred to as urine collection containers are as follows. Haniff, et al., URINE COLLECTION CONTAINER, U.S. Pat. No. 5,358,148 describes a simple hollow container with a sealable opening and a non-venting spout permitting pouring of contents from the container.

5 Haq, PORTABLE URINAL, U.S. Pat. No. 5,331,689 describes a portable urinal with a body, a flexible urine receiving tube external to the urinal, and an opening for releasing air from the urinal during filling. Also described is a urine specimen container connectable within the receiving tube.

10 Neither of these devices contain an anti-backflow device within the body of the urinal to prevent spillage. In addition, neither has a provision for detecting when it is near the full level, and neither describes internal odor prevention feature, features to distinguish the container in darkened environments or to distinguish particular features of the container, or a holder or hanger for easy use.

15 Deburgh, PORTABLE MALE URINAL, U.S. Pat. No. 4,091,476 describes a urinal which includes an elongated container with a frontal orifice for receiving the male organ, an internal tube slanting inwardly to prevent spillage, an outflow pipe, and an undersheet for securing the container in place while in use. The internal tube is not designed optimally for both filling and spillage prevention for the urinal. Further, this device describes no internal odor prevention feature, features to
20 distinguish the container in darkened environments or to distinguish particular features of the container, or a holder or hanger for easy use.

25 Nakao, et al., URINATING RECEIVER, U.S. Pat. No. 4,050,103, describes a urine storage tank, a urinating receiver, a urinating discharge pipe between the receiver and the tank, and a hanging device for suspending the device. The device contains no anti-backflow feature within the body of the urinal to prevent spillage, has no provision for detecting when it is near the full level, describes no internal odor prevention feature, and contains no features to distinguish the container in darkened environments or to distinguish particular features of the container from one another.

Chenault, MALE URINAL, U.S. Pat. No. 2,358,850 describes a urinal having a trap, a handle fixed rigidly to the urinal, a screw cap, and a plug. The urinal of Chenault, however, does not describe a removable handle, does not have an internal odor prevention feature, color and phosphorescent features for particular elements of the system, and is not particularly designed in such a manner to maximize filling capacity while preventing spillage via an anti-backflow system.

SUMMARY OF THE INVENTION

It is an object of the present invention to solve the problems of the existing art by providing a safety urinal of transparent or translucent plastic material that can endure a sterilization temperature of 130°C having a removable anti-backflow element and a "quick emptying" feature that dispenses with the necessity of removing the anti-backflow element for emptying. It is a further object of the present invention to provide a urinal with an internal odor tablet holding device. It is a further object of the present invention to provide unique or distinguishing coloring and/or phosphorescence to selected elements of the urinal. It is a further object of the present invention to provide a specially designed cradle for holding or carrying the urinal. It is a further object of the present invention to provide a fixed handle for the urinal. It is a further object of the present invention to provide an attachable handle for the urinal.

To achieve the stated and other objects of the present invention, as embodied and described below, the invention includes a urinal comprised of a urinal body with an interior, a planar base, an elongated neck portion with an axis of elongation having an opening for receiving an anti-backflow element, and a conduit opening located above the normal filling level of the urinal; stopping means with an outside contour and an inner contour; conduit attachment means for attaching the stopping means to the conduit opening such that a water-tight seal forms; an anti-backflow element insertable within the urinal neck, the anti-backflow element having a body comprising

a funnel shape with a larger end opening and a smaller end opening; and neck attaching means for attaching the larger end opening of the anti-backflow element to the neck of the urinal body such that a water-tight seal forms and such that the smaller end opening is oriented so as to overhang into the urinal body interior.

5 Additional objects, advantages and novel features of the invention will be set forth in part in the description which follows, and in part will become more apparent to those skilled in the art upon examination of the following or may be learned by practice of the invention.

10 BRIEF DESCRIPTION OF THE DRAWINGS

In the drawings:

FIG. 1 is a cutaway side view of the urinal for an embodiment of the present invention.

15 FIG. 1A is a cutaway side view of the urinal for an embodiment of the present invention with a fixed handle in place.

FIG. 2 is a partial cutaway view of a cap for the urinal for an embodiment of the present invention.

FIG. 3 is a partial cutaway side view of an attachable handle for the urinal for an embodiment of the present invention.

20 FIG. 4 is partial cutaway rear view of a urinal for an embodiment of the present invention.

FIG. 5 is cutaway end view of an attachable handle for the urinal for an embodiment of the present invention.

FIG. 6 is a urinal holder for an embodiment of the present invention.

25

DETAILED DESCRIPTION

An embodiment of the present invention includes a safety urinal of transparent or translucent plastic material that can endure a sterilization temperature of 130°C. In

an embodiment of the present invention, the urinal has a removable anti-backflow element attached to the urinal by, for example, a threaded fitting. An embodiment of the present invention also contains an improved feature for quick emptying, which dispenses with the necessity of removing the anti-backflow device during emptying.

5 The quick emptying feature also prevents release of odors when emptying.

In an embodiment of the present invention, the wall of the urinal contains a hole situated toward the end of the urinal opposite its neck. This hole, which is positioned above the normal level of filling, is surmounted by a conduit which forms a pouring spout that directs the exiting stream from the urinal. The diameter of the
10 hole and that of the conduit which surmounts it are sufficient to ensure rapid emptying of the urinal. This spout also enables directed precision pouring of the contents of the urinal; for example, the spout allows the filling of a test tube. In an embodiment of the present invention, the conduit has at its end a means for receiving a closing feature, such as a threaded cap, to quickly stop or unstop the hole. The combination
15 of the hole, the conduit, and the cap constitute the quick emptying system of the improved safety urinal.

The quick emptying system avoids the necessity of removing and/or manipulating the anti-backflow element located at the neck of the urinal each time that it is necessary to empty the contents of the urinal. A rinsing of the urinal via the
20 quick emptying feature may also be conducted.

In an embodiment of the present invention, the quick emptying feature includes an internal section that is judiciously limited so as to allow the emptying contents of the urinal to easily occupy the whole section. As a result, as opposed to existing art, no passage exists through which the internal air of the urinal can escape
25 during emptying. Thus, the handler is not inconvenienced.

Other advantages of the quick emptying feature of this embodiment include the following. When the safety urinal is immersed in a cleaning basin, the opening of the quick emptying feature, when not stopped, facilitates the rinsing of the entire

inside of the improved urinal. A flexible tube with a threaded connection is connectable to the conduit of the quick emptying feature via its external threading. The other end of the flexible tube can be inserted in an emptying siphon of the type used to receive emptyings from washing machines or other receptacles. This device
5 thus permits a practical and hygienic emptying of the improved safety urinal. A similar connection with the flexible tube branched to a water inlet can also be used for internal rinsing of the improved safety urinal, especially in a hospital environment.

In an embodiment of the present invention, a stopper system such as a cap stops the conduit of the quick emptying feature of the urinal. This stopper system is
10 either composed of a simple plug introduced into the conduit, or by a jointed or self-jointing cap with a lip that may be screwed on the end part of the conduit. The cap has for this attachment purpose an internal threading matable with an external threading on the conduit.

To prevent an untimely emptying by, for example, a bedridden patient not
15 having all of his or her mental faculties, the stopper system includes a feature known as a safety screw or "child-proof cap" (jointed or self-jointing), which once screwed, requires exertion at the same time of a strong pressure, generally axially, in order to unscrew it. Failing this, the unscrewing does not engage. This safety screw cap if not so unscrewed, emits a click-clack noise warning of the attempt at unstopping. In
20 another embodiment, the cap does not emit any noise during the attempt unstop.

In another embodiment of the present invention, the means for avoiding undesired unstopping is a cap and conduit with a left hand thread pitch, instead of the normal right hand thread pitch.

To permit more easy removal of the simple plug, in an embodiment of the
25 present invention, the upper part of the plug contains a circular shoulder permitting easy grabbing. The simple plug is made of a flexible material which can sustain a temperature of 130°C. In an embodiment of the present invention, the plug is made of flexible silicone. This material, during successive unstoppings and re-stoppings,

offers the advantage of tolerating well the aggressiveness of the orifice of the quick emptying feature and of withstanding a temperature of 130°C.

In another embodiment of the present invention, the stopper is a cap, which, in order to facilitate unscrewing and rescrewing, is equipped on the periphery with
5 grooves or cut-off corners. In an embodiment of the present invention, the screw cap is of plastic material capable of withstanding 130°C. In an embodiment of the present invention, the material of construction of the cap is a substance of the family of polyolefins.

In an embodiment of the present invention, the color of the plug for the quick
10 emptying feature of the improved safety urinal is selected so as to draw attention to the cap. In an embodiment of the present invention, the cap is of a different color than the body of the improved urinal. For example, the cap may be red or white in color to permit finding it easily and for perceiving quickly that it is well put into place in the orifice of the quick emptying system. A fluorescent color is likewise
15 appropriate.

In an embodiment of the present invention, the stopper contains or is made of a material that stores photons when the stopper is in a lighted environment and emits photons in the form of light when the stopper is in darkness (e.g., a phosphorescent material). This feature eases locating of the urinal and stopper in unlighted
20 conditions.

In an embodiment of the present invention, the stopper for the quick emptying feature of the urinal includes a cavity oriented toward the inside of the conduit when the stopper is in place. This cavity and its orifice are designed so that the stopper may hold, by, for example, elastic means, a small perforated container. This container in
25 turn holds a volatile tablet of the same kind as those placed in toilet bowls. The tablet purifies the air contained in the urinal when the "quick emptying" system is stopped.

In an embodiment of the present invention, the hole and its conduit also allow sampling of the contents of the urinal and introduction of probes for indicating the

pH, etc., of the contents. The hole and conduit are also suitable for introducing and attaching a probe ending in the proximity of the small opening end of the anti-backflow element. This probe has, at its end, means such that when the end of the probe is wetted for a certain time, the end establishes an electric contact triggering a
5 sound alert that the urinal needs emptying.

The color of the material constituting the anti-backflow element of the improved safety urinal in an embodiment of the present invention is different from that of the urinal body. This color scheme distinguishes the anti-backflow element as a separate feature from the urinal body, as a portion of the element extends beyond the
10 end of the neck of the urinal. The coloring further indicates where to grasp the anti-backflow element in order to remove it from the urinal. The coloring also eases filling of the urinal by allowing estimation of the height of the contents remaining by comparison with the small opening of the anti-backflow element.

Once in place, the anti-backflow element inserted within the urinal body
15 determines the maximum use capacity of the urinal; the maximum volume that the urinal with the anti-backflow element and the quick plug in place can receive is that amount of fill necessary to reach the smaller opening of the anti-backflow element, regardless of the orientation of the urinal in space. When the urinal is filled up at its maximum use capacity, its liquid content cannot reach and spill via the small end of
20 the anti-backflow element. In an embodiment of the present invention, the small end of the anti-backflow element is defined as being located at the heart of the urinal body.

In an embodiment of the present invention, two prehension notches are located on the sides of the urinal. These prehension notches allow handling of the urinal by
25 its top side (under the handle) such that it is more easily grasped. The prehension notches thus reduce the risk of dropping the urinal on the floor.

In order to safely prevent untimely unscrewing of the anti-backflow element, by for example, bedridden patients not having all their mental faculties, in an

embodiment of the present invention, this feature is attached by threading with a left-handed pitch, rather than the more typical right-handed thread.

For ease of handling and better hygiene, in an embodiment of the present invention, the improved urinal is equipped with a removable or fixed handle. In an
5 embodiment of the present invention, the handle is of a plastic material that can withstand a sterilization temperature of 130°C. In an embodiment of the present invention, the handle is located on the top side of the urinal such that, when the said urinal is filled to its maximum use capacity, its handling feels stable. Further, in an embodiment of the present invention, the handle includes at its end a small boss, so
10 that the handle won't slip from the hands during handling.

To make the packaging less voluminous and to make transporting the improved safety urinal more economical, in an embodiment of the present invention the removable handle is of dimensions such that the handle can clear the neck of said urinal so that the handle may be housed in the urinal during transport and storage.

15 In an embodiment of the present invention, the urinal includes a removable handle with the following features. The back of the improved safety urinal contains at least one tab having an axis of symmetry parallel to the axis of the urinal. This tab has on each side of its base a longitudinal slide or coupling. A mating slide or an analogous system equipped so as to receive the tab exists in a cavity in the base of the
20 handle. The two side edges of the slide each contain a retainer capable of fitting the tab introduced by sliding in the slide. A stop limits the sliding. A stub or its equivalent situated on the top of the tab is elastically positioned in a hollow housing provided for this purpose in the slide or near it, or vice versa. The handle thus may be sturdily attached, while remaining detachable. In another embodiment, the handle is
25 undetachable once attached: in this embodiment, the handle stub and its counterpart each have a vertical side making the snapping on irreversible.

In an embodiment of the present invention, the urinal includes a fixed handle with the following features. In the case of the manufacture of the urinal from a

hollow mass, the mass is dimensioned and positioned so that it extends in the mold beyond the imprint of the urinal in the zone corresponding to the back of the urinal. The knives of the mold are judiciously arranged so that beyond the contour of the imprint of the improved safety urinal they can cut in the profile of the handle the flat
5 mass that is in excess, while leaving the base of the handle connected to the body of the improved safety urinal. During the closure of the mold, the knives cut the mass following the contour of the imprint, except in the area of the foot of the handle, for which they cut the outside contour while hot stamping the handle. The handle is housed in the two half cavities, which are not at all deep enough to contain it; a hot
10 pressure results, melding the two walls between the cavities.

To make the flat handle of an embodiment of the present invention easier to grasp, in an embodiment of the present invention, the half cavities in the mold forming the housing of the handle have for this purpose at certain points symmetric differences of depth so as to press the plastic material coming out of the mass to make
15 it flow back to other points in the more hollow half cavities in a symmetric manner. This feature thickens the handle at certain points, the cavities having made in this way a veritable hot mold, causing the plastic to flow back from less hollow points to more hollow points. By this hot molding procedure one may also deform the handle on the part provided for grasping it by creating undulations to increase its bulk.

20 In an embodiment of the present invention, an antiseptic, whether perfumed or not, is grafted for hygiene purposes into the material constituting the body of the urinal, the material of its handle, the material of the anti-backflow element, and the material of its filler. In an embodiment of the present invention, plugs, caps, handles, and the anti-backflow element materials are of a density such that, in case of falling
25 into water or other contents of the urinal, these items float and are thus easily retrievable.

To make the use of the urinal even more practical, an embodiment of the present invention includes a urinal cradle or holder that can be hung on the side of the

bed by a hook that forms part of the cradle. When the urinal is hung by a cradle as described in this embodiment, the urinal remains within handy reach of the bedridden patient.

In an embodiment of the present invention, the urinal carrier is essentially
5 constituted of three branches or rods composed of a material or materials sterilizable at 130°C. The branches are suitably curved so as to form an open cage, and the branches are joined at two points by, for example, welding. In another embodiment, the carrier is made of a single piece of plastic material formed by molding. An advantage of the carrier is its great simplicity, which makes mass production trouble
10 free and facilitates its maintenance and its disinfection.

The urinal carrier thus constitutes a type of open cradle in which the urinal rests. For this purpose the cradle's shape and dimensions are specially established to receive the urinal and to keep it laterally in a vertical position (neck in the air). In an embodiment of the present invention, the urinal cradle is sufficiently open in the front
15 so as to leave the grasping notches and/or the handle of the urinal easily accessible. Another feature, which prevents the ends of the branches of the carrier from being harmful, is the fitting of tips of flexible material at the end of the branches.

References will now be made in detail to an embodiment of the present invention, an example of which is illustrated in the accompanying drawings.

20 Figure 1 presents an elevation view of an embodiment of the present invention showing a partial cutaway along the line CD (shown in Figure 4) of the urinal body. Features illustrated include the anti-backflow element, which can be unscrewed at the neck, the quick emptying feature with its threaded neck offering a relatively limited internal section for emptying, and the protuberance forming tab to fit exactly in a
25 detachable way in the slide or an analogous system situated in the base of an attachable handle. In Figure 1, the urinal 1 shown illustrates some of the invention's unique features. A hole 2 situated above the normal filling level of the urinal 1 is surmounted by a conduit 3 with its threading 4 established so as to allow screw

attachment of a self-jointing, lipped cap 8 for plugging the hole 2. The anti-backflow element 5 is attached by a screwable (threaded) fitting so as to be water-tight and so that the element 5 is held within the neck of the urinal 1. The anti-backflow element 5 permits orienting of the urinal 1 at any angle when normally filled without its contents escaping. A tab 6 situated at the top of the urinal 1 permits the slide (not shown in Figure 1; see slide 12 in Figure 3) of the handle (not shown in Figure 1; see Figure 3) to be attached by snapping on in a detachable way. The handle is further held in place by a stub 7 after having been stopped by a stop on the handle (not shown in Figure 1; see Figure 3).

The functioning of the anti-backflow element 5 can be discerned by further examination of Figure 1 (see also Figure 4, below). When a little liquid flow is introduced in the element 5, the liquid travels by gravity through the tubular funnel shape portion of the anti-backflow element 5 towards its smaller end. This liquid then flows into the body of the urinal 1 and an equivalent volume of air escapes from the urinal 1 via the smaller end of the anti-backflow element 5. The diameter of the smaller end of the anti-backflow element 5 is designed so it cannot be completely obstructed by liquid flow: the air escapes, and there is no liquid backflow inside the anti-backflow element 5 nor spillage from the urinal.

Figure 1A presents an elevation view of an embodiment of the present invention similar to that view presented in Figure 1 but with a permanently attached handle 11 shown.

Figure 2 presents an elevation view of an embodiment of the present invention showing a partial-cutaway of the self-jointing screw cap (with lip). Inside the lip, a disinfectant tablet is inserted elastically. As shown in Figure 2, a self-jointing screw cap 8 is attachable by screwing (threading) onto the conduit 3. The cap 8 is designed so as to plug the conduit 3 in a water-tight manner in conjunction with a conical lip 9. A tablet 10 of, for example, disinfectant product is housed elastically in the lip 9 to help sanitize the inside of the urinal 1 when the cap 8 is installed.

Figure 3 presents an elevation view of an embodiment of the present invention showing a partial cutaway of the base of the removable handle showing the slide or an analogous system of slides and tongue for attachment of the handle to the urinal. As shown in Figure 3, the detachable handle 11 with its slide 12 is equipped with a stop
5 13 against which the tap (not shown in Figure 3; see tap 6 in Figure 1) stops the handle 11 against the housing 14 of the handle 11 when by sliding the stub (not shown in Figure 3; see stub 7 in Figure 1) penetrates into the handle 14.

Figure 4 is a rear elevation of the embodiment of the present invention shown in Figure 1 for a half-cutaway view along the line AB (shown in Figure 1) and
10 containing the sectional profile of the tab for sliding in the slide of the handle. Figure 4 includes the urinal 1 with its anti-backflow element 5, from an end view, and the profile of the tab 6 and the stub 7.

Figure 5 presents the detachable handle for an embodiment of the present invention from a rear elevation view showing with dotted lines the section of the
15 handle's slide containing the housing for the stub. In figure 5, the handle 11 has an inner vacancy 12 for the slide of the urinal and a housing 14 for receiving the stub of the urinal.

Figure 6 presents a perspective view, on a very reduced scale, of the carrier for the improved safety urinal for an embodiment of the present invention, in which the carrier consists of three curved rods assembled by welding and ends fitted with tips of
20 flexible material. As shown in Figure 6, in this embodiment the urinal carrier consists of three rods 16, 17, and 18 judiciously bent, and assembled via attachment at two points, to form an open cradle that offers easy access to the prehension notches of the urinal of the present invention, as well as to the handle. The spine branch 18 is curved
25 to form a hook 19 for hanging the carrier. So that the ends of the rods do not cause injury, they are fitted with tips 20 of flexible material. In an embodiment of the present invention, the rods 16, 17, and 18 consist of painted or plastic covered iron or stainless steel.

What is claimed is:

1. A urinal of translucent or transparent plastic material with its handles ,
a screw capsule, the combination being capable of enduring a
5 sterilization temperature, containing partially in its neck an anti-backflow
system of plastic material able to endure a sterilization temperature,
having approximately the shape of a funnel whose larger opening is attached
directly so as to be water-tight and detachable on the neck of the urinal
from which it overhangs and whose smaller opening empties essentially into the
10 heart of the volume remaining in said urinal, characterized toward the
middle of its top by a system of attaching its handle and above its normal
filling level, approximately toward the opposite end of its neck, a hole
which traverses its wall and is surmounted by a conduit of a cross section
which is just enough, surrounded by a threading which channels the
15 emptying, forms a pouring spout, orients and directs the jet in a precise way
and is plugged with the aid of a plugging system.
2. A urinal according to claim 1, characterized by the fact that the plugging
system of the conduit surrounded by a threading having a pitch to the
20 right is a self-jointing screw capsule with lip with a threading having a
right hand thread pitch.

3. A urinal according to claim 1 and 2, characterized by the fact that the system for plugging the conduit surrounded by a threading having a right hand thread pitch is a screw capsule known as a self-jointing child safety capsule having a right hand thread pitch.

4. A urinal according to claims 1, 2, and 3, characterized by a threading which surrounds the conduit having a left hand thread pitch and a capsule likewise having a left hand thread pitch.

10

5. A urinal according to the claims 1, 2, 3, and 4, characterized by the fact that the outside contour of these capsules is grooved or contains cut off corners.

15 6. A urinal according to the claims 1, 2, 3, 4, and 5, characterized by the outside of these capsules being colored red, white, or green.

7. A urinal according to the claims 1, 2, 3, 4, 5, and 6, characterized by the outside of these capsules being of a different color from that of said body
20 of said improved safety urinal.

8. A urinal according to the claims 1, 2, 3, 4, 5, 6, and 7, characterized by the external material of these capsules which store photons in a lighted place, and then restores them in the form of luminous rays.
- 5 9. A urinal according to the claims 1, 2, 3, 4, 5, 6, 7, and 8, characterized by it s lip forming a cavity containing a tablet of perfumed product.
10. A urinal according to claim 1, characterized its plastic material able to support a sterilization temperature of 130°C.
- 10 11. A urinal according to claim 1, characterized by a gauge introduced by the conduit to the proximity of the end of the anti-backflow system and when it is wetted it triggers an audio alarm.
- 15 12. A urinal according to claim 1, characterized by the anti-backflow system having a different color from that of the body of said urinal.
13. A urinal according to claim 1, characterized by the body of said urinal and its anti-backflow system being equipped with a screw system made with
- 20 a right hand threading.

14. A urinal according to claim 1, characterized by the body of said urinal and its anti-backflow system being equipped with a screw system made with a left hand thread pitch.
- 5 15. A urinal according to claims 1 and 16 characterized by an inclination of the axis of its neck relative to the plane of its base being included between 10 and 30 degrees.
16. An improved safety urinal according to claim 1, characterized on the top of
10 its body by a tab, a stub, and by its removable handle equipped on its lower part with a slide, a stop, a housing .
17. A urinal according to claim 1 and 15, characterized by the little bosses coming out on the lower part of its handle against which the figures
15 rest.
18. An improved safety urinal according to claim 1, characterized by a fixed and solid handle obtained directly by cutting the mass by the knives of the mold from which there results a double wall which becomes simultaneously a
20 single wall hot welded by pressing of the two parts of the mold judiciously shaped which upon approaching exert a matrixing effect on said single wall,

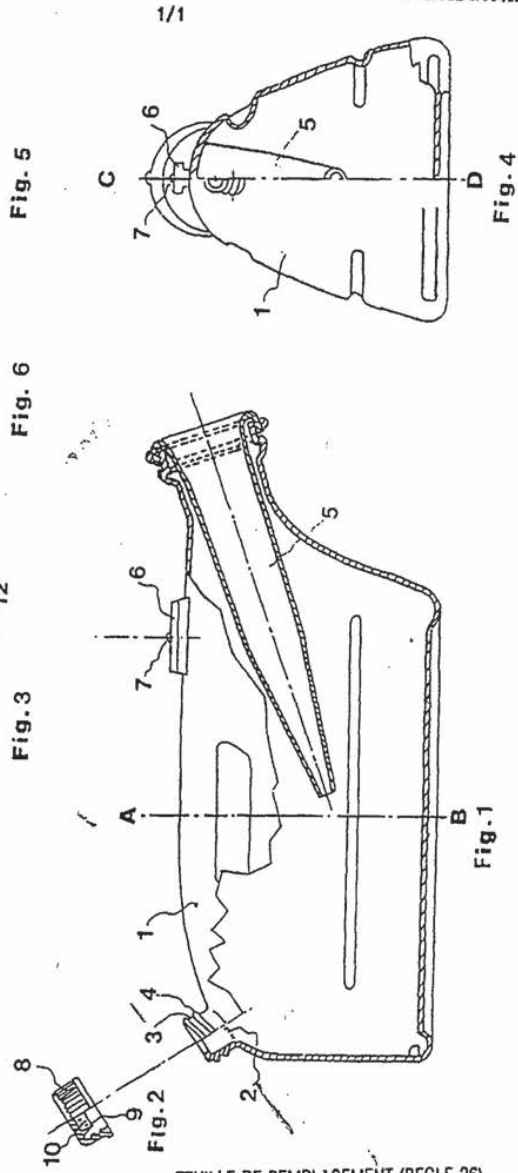
increasing the thickness at certain points and reducing it in other points.

19. An improved safety urinal according to claim 1, characterized by its plastic material being grafted with substances of a nature as to render it
- 5 antiseptic and/or perfumed.
20. A urinal carrier for an improved safety urinal according to claim 1, characterized by a cradle composed of three rods and judiciously fashioned and assembled, the rod opening its arms widely, the rod being curved to form a hook, the
- 10 ends of the three rods which hold the urinal being fitted with tips of a flexible material.
21. An improved safety urinal according to claim 1, characterized by its removable handle being of a dimension such that it can pass through it neck.

15

ABSTRACT

The present invention describes a urinal of transparent or translucent plastic material that can endure a sterilization temperature of 130°C having a detachable anti-backflow element. The present invention also contains an improved feature for quick emptying, which dispenses with the necessity of removing the anti-backflow element and thus the releasing of odors during emptying. The urinal also includes other features, such as an internal odor tablet holding device, unique coloring and phosphorescent features for selected elements of the urinal, a specially designed cradle for holding or hanging the urinal, and either a fixed or attachable handle.



FEUILLE DE REMPLACEMENT (REGLE 26)

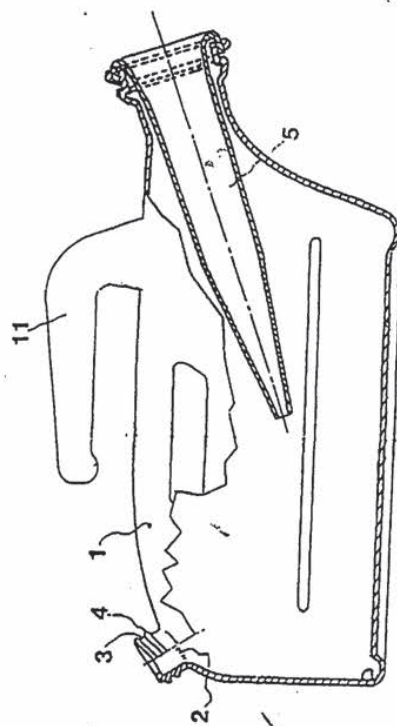


Fig. 1A

RED LINE

- 1 -

WO 96/29972
PCT/FR96/00412

SUBSTITUTE SPECIFICATION PURSUANT TO 37 C.F.R. § 1.125

5

IMPROVED SAFETY URINAL

FIELD OF THE INVENTION

10 The present invention relates to the field of safety urinals. In particular, the present invention describes features for a transparent plastic material urinal that is able to withstand sterilization temperature above 130°C, has an anti-backflow system that includes a screw-type release, and an improved feature for quick emptying that prevents release of odors.

15

BACKGROUND OF THE INVENTION

 [Known] Existing art for safety urinals[,] includes devices made of transparent or translucent plastic material[,] that are able to endure a sterilization temperature of 130°C[, have an]. In addition, existing art for urinals includes anti-backflow [system which is] systems that are removable by unscrewing to permit cleaning of the unit [and]; this feature is indispensable for emptying the urinal.

20 A drawback of existing urinals is that, during the emptying of the contents of a urinal via the large orifice of the neck typical of these urinals, the confined internal air of the urinals typically escaped unpleasantly toward the handler. Further, whether
25 they involve a detachable or a fixed handle, existing urinal manufacturing techniques that involve blowing are such as to pose problems of tightness of fit in the case of manufactures done by mass production.

____ Examples of existing art for urinals, also referred to as urine collection containers are as follows. Hanifi, et al., URINE COLLECTION CONTAINER, U.S. Pat. No. 5,358,148 describes a simple hollow container with a sealable opening and a non-venting spout permitting pouring of contents from the container.

- 5 ____ Haq, PORTABLE URINAL, U.S. Pat. No. 5,331,689 describes a portable urinal with a body, a flexible urine receiving tube external to the urinal, and an opening for releasing air from the urinal during filling. Also described is a urine specimen container connectable within the receiving tube.

- 10 ____ Neither of these devices contain an anti-backflow device within the body of the urinal to prevent spillage. In addition, neither has a provision for detecting when it is near the full level, and neither describes internal odor prevention feature, features to distinguish the container in darkened environments or to distinguish particular features of the container, or a holder or hanger for easy use.

- 15 ____ Deburgh, PORTABLE MALE URINAL, U.S. Pat. No. 4,091,476 describes a urinal which includes an elongated container with a frontal orifice for receiving the male organ, an internal tube slanting inwardly to prevent spillage, an outflow pipe, and an undersheet for securing the container in place while in use. The internal tube is not designed optimally for both filling and spillage prevention for the urinal. Further, this device describes no internal odor prevention feature, features to
20 ____ distinguish the container in darkened environments or to distinguish particular features of the container, or a holder or hanger for easy use.

- ____ Nakao, et al., URINATING RECEIVER, U.S. Pat. No. 4,050,103, describes a urine storage tank, a urinating receiver, a urinating discharge pipe between the receiver and the tank, and a hanging device for suspending the device. The device
25 ____ contains no anti-backflow feature within the body of the urinal to prevent spillage, has no provision for detecting when it is near the full level, describes no internal odor prevention feature, and contains no features to distinguish the container in darkened environments or to distinguish particular features of the container from one another.

Chenault, MALE URINAL, U.S. Pat. No. 2,358,850 describes a urinal having a trap, a handle fixed rigidly to the urinal, a screw cap, and a plug. The urinal of Chenault, however, does not describe a removable handle, does not have an internal odor prevention feature, color and phosphorescent features for particular elements of the system, and is not particularly designed in such a manner to maximize filling capacity while preventing spillage via an anti-backflow system.

SUMMARY OF THE INVENTION

It is an object of the present invention to solve the problems of the existing art by providing a safety urinal of transparent or translucent plastic material that can endure a sterilization temperature of 130°C having a removable anti-backflow element and a "quick emptying" feature that dispenses with the necessity of removing the anti-backflow element for emptying. It is a further object of the present invention to provide a urinal with an internal odor tablet holding device. It is a further object of the present invention to provide unique or distinguishing coloring and/or phosphorescence to selected elements of the urinal. It is a further object of the present invention to provide a specially designed cradle for holding or carrying the urinal. It is a further object of the present invention to provide a fixed handle for the urinal. It is a further object of the present invention to provide an attachable handle for the urinal.

To achieve the stated and other objects of the present invention, as embodied and described below, the invention includes a urinal comprised of a urinal body with an interior, a planar base, an elongated neck portion with an axis of elongation having an opening for receiving an anti-backflow element, and a conduit opening located above the normal filling level of the urinal; stopping means with an outside contour and an inner contour; conduit attachment means for attaching the stopping means to the conduit opening such that a water-tight seal forms; an anti-backflow element insertable within the urinal neck, the anti-backflow element having a body comprising

a funnel shape with a larger end opening and a smaller end opening; and neck attaching means for attaching the larger end opening of the anti-backflow element to the neck of the urinal body such that a water-tight seal forms and such that the smaller end opening is oriented so as to overhang into the urinal body interior.

- 5 Additional objects, advantages and novel features of the invention will be set forth in part in the description which follows, and in part will become more apparent to those skilled in the art upon examination of the following or may be learned by practice of the invention.

10 BRIEF DESCRIPTION OF THE DRAWINGS

In the drawings:

FIG. 1 is a cutaway side view of the urinal for an embodiment of the present invention.

- 15 FIG. 1A is a cutaway side view of the urinal for an embodiment of the present invention with a fixed handle in place.

FIG. 2 is a partial cutaway view of a cap for the urinal for an embodiment of the present invention.

FIG. 3 is a partial cutaway side view of an attachable handle for the urinal for an embodiment of the present invention.

- 20 FIG. 4 is partial cutaway rear view of a urinal for an embodiment of the present invention.

FIG. 5 is cutaway end view of an attachable handle for the urinal for an embodiment of the present invention.

FIG. 6 is a urinal holder for an embodiment of the present invention.

25

DETAILED DESCRIPTION

[The safety urinal according to the invention is] An embodiment of the present invention includes a safety urinal of transparent or translucent plastic material[. It]

that can endure a sterilization temperature of 130°C. [It] In an embodiment of the present invention, the urinal has a removable anti-backflow [system especially by unscrewing. Relative to the known models, it moreover contains a special "quick emptying" system which in particular dispenses with removal of the anti-backflow for
5 emptying,] element attached to the urinal by, for example, a threaded fitting. An embodiment of the present invention also contains an improved feature for quick emptying, which dispenses with the necessity of removing the anti-backflow device during emptying. The quick emptying feature also prevents release of odors when emptying[, and offers moreover judicious modifications and additions which are
10 combined and confer upon it new advantages.],

[For this purpose and according to the invention:

The wall of this improved] In an embodiment of the present invention, the wall of the urinal contains a hole situated [approximately] toward the end of the urinal opposite
15 its neck. This hole, which is positioned above the normal level of filling[. This hole], is surmounted by a conduit which [channels the emptying and] forms a pouring spout [which orients and directs the stream in particular to be able to pour with precision into a test tube. This conduit is equipped at its end which empties outside to receive in particular a shutoff system permitting quick stopping and unstopping. The diameter of
20 this] that directs the exiting stream from the urinal. The diameter of the hole and that of the conduit which surmounts it are [only] sufficient to ensure [a rather rapid emptying of this improved urinal.]rapid emptying of the urinal. This spout also enables directed precision pouring of the contents of the urinal; for example, the spout allows the filling of a test tube. In an embodiment of the present invention, the
25 conduit has at its end a means for receiving a closing feature, such as a threaded cap, to quickly stop or unstop the hole. The combination of the [hold] hole, the conduit, and the [stopping system constitutes the "] cap constitute the quick emptying [" system of the improved safety urinal.

[It avoids going out of the anti-backflow system of the neck and having to handle it] The quick emptying system avoids the necessity of removing and/or manipulating the anti-backflow element located at the neck of the urinal each time that it is [only useful for emptying the aforesaid urinal. A rinsing by the "quick emptying" [system] is possible.] necessary to empty the contents of the urinal. A rinsing of the urinal via the quick emptying feature may also be conducted.

[Before, with a urinal, during the emptying of its contents by the large orifice of its neck, the confined internal atmosphere of this urinal escaped unpleasantly toward the handler.

10

On the other hand, with the improved safety urinal, during its emptying by the "quick emptying" [system], whose internal section]In an embodiment of the present invention, the quick emptying feature includes an internal section that is judiciously limited[,] so as to allow the emptying [stream can] contents of the urinal to easily occupy the whole section. [It turns out that there is no longer any passage for the internal atmosphere of the improved urinal which can permit it to escape during an] As a result, as opposed to existing art, no passage exists through which the internal air of the urinal can escape during emptying. Thus, the handler is not inconvenienced.

15

Other advantages of the quick emptying feature of this embodiment include
20 the following. When the safety urinal is immersed in a cleaning basin, the opening of the ["] quick emptying [" [system] (not stopped)] feature, when not stopped, facilitates the rinsing of the entire inside of the improved urinal. A flexible tube with a threaded connection is connectable to the conduit of the quick emptying feature via its external threading. The other end of the flexible tube can be inserted in an emptying siphon of
25 the type used to receive emptyings from washing machines or other receptacles. This device thus permits a practical and hygienic emptying of the improved safety urinal. A similar connection with the flexible tube branched to a water inlet can also be used for internal rinsing of the improved safety urinal, especially in a hospital environment.

A [connection preferably threaded, extended by a flexible tube is equipped to be connected] flexible tube with a threaded connection is connectable to the conduit of the ["] quick emptying [" [system] whose end is equipped with an] feature via its external threading. The other end of the flexible tube can be inserted in an emptying
5 siphon of the type used to receive emptyings from washing machines or [in all] other receptacles. This device thus permits a practical and hygienic emptying of the improved safety urinal. A similar [An analogous] connection with the flexible tube branched to a water inlet can [likewise] also be used for internal rinsing of the improved safety urinal, especially in a hospital environment.

10 [A] In an embodiment of the present invention, a stopper system such as a cap stops the conduit of the ["] quick emptying [" [system]] feature of the [improved safety] urinal. This stopper system is either [constituted by] composed of a simple plug introduced into the conduit, or by a jointed or self-jointing [capsule] cap with [lips, preferably] a lip that may be screwed on the end part of the conduit [containing
15 in particular for this purpose an outside threading]. The cap has for this attachment purpose an internal threading matable with an external threading on the conduit.

_____ To prevent an untimely emptying by, for example, a bedridden patient not having all of his or her mental faculties, the ["quick emptying" [system] in this case is stopped by a capsule] stopper system includes a feature known as a safety screw or
20 "child-proof cap" (jointed or self-jointing), which once screwed, [required, to be able to unscrew it,] requires exertion at the same time of a strong pressure, generally axially, in order to unscrew it. Failing this, the unscrewing does not engage. [These] This safety screw [capsules in this case then emit] cap if not so unscrewed, emits a click-clack noise warning of the attempt at unstopping. [Some capsules do] In
25 another embodiment, the cap does not emit any noise during the attempt [at unstopping. A supplementary means of] unstop.

_____ In another embodiment of the present invention, the means for avoiding undesired unstopping is [that the thread pitch of the capsules and of the conduit,

instead of having a normal right hand pitch, are threaded with a left hand] a cap and conduit with a left hand thread pitch, instead of the normal right hand thread pitch.

To permit more easy removal of the simple plug, [its] in an embodiment of the present invention, the upper part [may contain] of the plug contains a circular
5 shoulder permitting easy grabbing. [Likewise the capsules, to facilitate their unscrewing and their rescrewing, are equipped on their periphery with grooves or cut-off corners.

[The simple plug is made of a flexible material which can sustain a temperature of
10 130°C. [Such a plug can be] In an embodiment of the present invention, the plug is made of flexible silicone [for the "quick emptying" system of the improved safety urinal. Actually, this material]. This material, during successive unstoppings and restoppings, offers the advantage of tolerating well the aggressiveness of the orifice of the ["] quick emptying [" system] feature and of [admitting] withstanding a
15 temperature of 130°C.

[The screw capsules are] In another embodiment of the present invention, the stopper is a cap, which, in order to facilitate unscrewing and rescrewing, is equipped on the periphery with grooves or cut-off corners. In an embodiment of the present invention, the screw cap is of plastic material [resisting 130°C and are in particular]
20 capable of withstanding 130°C. In an embodiment of the present invention, the material of construction of the cap is a substance of the family of polyolefins.

[The] In an embodiment of the present invention, the color of the plug [plugging] for the ["] quick emptying [" system] feature of the improved safety urinal is [chosen preferably] selected so as to draw attention [and] to the cap. In an
25 embodiment of the present invention, the cap is of a different color [that] than the body of the improved urinal. [It is advantageously] For example, the cap may be red or white in color to permit finding it easily and for perceiving quickly that it is well

put into place in the orifice of the ["] quick emptying ["] system. A fluorescent color is likewise appropriate.

[The stoppers below contain a material storing photons which it] In an embodiment of the present invention, the stopper contains or is made of a material that stores photons when the stopper is in a lighted environment and [restores them] emits photons in the form of light when [it is in darkness thus permitting finding its improved safety urinal at night and this stopper when it has been momentarily set aside.] the stopper is in darkness (e.g., a phosphorescent material). This feature eases locating of the urinal and stopper in unlighted conditions.

10 [A cavity in the stopper system of the "quick emptying" system of the improved safety urinal empties] In an embodiment of the present invention, the stopper for the quick emptying feature of the urinal includes a cavity oriented toward the inside of [its] the conduit when the stopper is in place. This cavity and its orifice are [judiciously dimensioned so that it fits together for example elastically inside]
15 designed so that the stopper may hold, by, for example, elastic means, a small perforated container [containing]. This container in turn holds a volatile tablet of the same kind as those placed in [the bowls of toilets to purify the internal atmosphere of the aforesaid urinal which the "quick emptying" system is]toilet bowls. The tablet purifies the air contained in the urinal when the "quick emptying" system is stopped.
20 [stopped.

The] In an embodiment of the present invention, the hole and its conduit [make it possible to make samplings in the aforesaid improved safety urinal and to introduce probes]also allow sampling of the contents of the urinal and introduction of probes
25 for indicating the pH, etc. [They], of the contents. The hole and conduit are also suitable for introducing and attaching a probe ending in the proximity of the small [orifice] opening end of the anti-backflow [so that when it would be] element. This probe has, at its end, means such that when the end of the probe is wetted for a certain

time, [it would establish] the end establishes an electric contact triggering a sound alert [announcing in particular the need to empty it] that the urinal needs emptying.

The color of the material constituting the anti-backflow element of the improved safety urinal [is advantageously chosen so that] in an embodiment of the present invention is different from that [constituting the body of the aforesaid urinal. One therefore perceives externally that it involves a different piece, a part of which goes] of the urinal body. This color scheme distinguishes the anti-backflow element as a separate feature from the urinal body, as a portion of the element extends beyond the end of the neck of the [aforesaid urinal. Thus one sees where one must grab it to be able] urinal. The coloring further indicates where to grasp the anti-backflow element in order to remove it from the urinal. [Its coloring permits also seeing better in all positions any filling yet possible in said urinal by estimating the distance which remains between the small end] The coloring also eases filling of the urinal by allowing estimation of the height of the contents remaining by comparison with the small opening of the anti-backflow [and the level of the contents.] element.

[For safety, to prevent untimely unscrewing] Once in place, the anti-backflow element inserted within the urinal body determines the maximum use capacity of the urinal; the maximum volume that the urinal with the anti-backflow element and the quick plug in place can receive is that amount of fill necessary to reach the smaller opening of the anti-backflow [device by] element, regardless of the orientation of the urinal in space. When the urinal is filled up at its maximum use capacity, its liquid content cannot reach and spill via the small end of the anti-backflow element. In an embodiment of the present invention, the small end of the anti-backflow element is defined as being located at the heart of the urinal body.

In an embodiment of the present invention, two prehension notches are located on the sides of the urinal. These prehension notches allow handling of the urinal by its top side (under the handle) such that it is more easily grasped. The prehension notches thus reduce the risk of dropping the urinal on the floor.

In order to safely prevent untimely unscrewing of the anti-backflow element, by for example, bedridden patients not having all their mental faculties, [its screwing instead of being classical with a right hand pitch, is equipped with a left hand pitch.] in an embodiment of the present invention, this feature is attached by threading with a
5 left-handed pitch, rather than the more typical right-handed thread.

[To be easy to handle and for hygiene,]For ease of handling and better hygiene, in an embodiment of the present invention, the improved urinal is [advantageously] equipped with a removable or fixed handle. [It is of]In an embodiment of the present invention, the handle is of a plastic material [which] that
10 can withstand a sterilization temperature of 130°C. [It begins toward the middle of the back of the improved safety urinal. So that it won't slip from the hands, at its end there is a small boss.] In an embodiment of the present invention, the handle is located on the top side of the urinal such that, when the said urinal is filled to its maximum use capacity, its handling feels stable. Further, in an embodiment of the present
15 invention, the handle includes at its end a small boss, so that the handle won't slip from the hands during handling.

To make the packaging less voluminous and to make transporting the improved safety [urinals] urinal more economical, [their removable handles are] in an embodiment of the present invention the removable handle is of dimensions such that
20 [they can clear the necks of said urinals and be housed in said urinals during their transport and for their storage.] the handle can clear the neck of said urinal so that the handle may be housed in the urinal during transport and storage.

[- Removable handle example:

25]In an embodiment of the present invention, the urinal includes a removable handle with the following features. The back of the improved safety urinal contains at least one tab [whose] having an axis of symmetry [is] parallel to the axis of [said] the urinal. This tab has on each side of its base a longitudinal slide or [uncoupling. A

]coupling. A mating slide or an analogous system equipped [with a section in relation with that of said] so as to receive the tab exists in a cavity in the base of the handle.
The two side edges of [said] ~~the~~ slide each contain a retainer capable of fitting the [said] tab introduced by sliding in [said] ~~the~~ slide. A stop limits the sliding. A stub or
5 its equivalent situated on the top of [said] ~~the~~ tab is elastically positioned in a hollow housing provided for this purpose in [said] ~~the~~ slide or near it, or vice versa. The handle [is positioned] thus may be sturdily attached, while remaining detachable.
[For an undetachable handle the]In another embodiment, the handle is undetachable once attached: in this embodiment, the handle stub and its counterpart each have a
10 vertical side making the snapping on irreversible.

[

Fixed handle example:

]In an embodiment of the present invention, the urinal includes a fixed handle with
15 the following features. In the case of the manufacture of the urinal from a hollow mass, [said] ~~the~~ mass is dimensioned and positioned so that it extends in the mold beyond the imprint of the urinal in the zone corresponding to the back of [said] ~~the~~ urinal. The knives of the mold are judiciously arranged so that beyond the contour of the imprint of the improved safety urinal they can cut in the profile of the handle the
20 flat mass [which] ~~that~~ is in excess, while leaving the base of [said] ~~the~~ handle connected to the body of the improved safety urinal. During the closure of the mold, the knives cut the mass following the contour of the imprint, except in the area of the foot of the handle, for which they cut the outside contour while hot stamping the
[latter] handle. The handle is housed in the two half cavities, which are not at all deep
25 enough to contain it[. This results in]; a hot pressure [so as to weld] results, melding the two walls between [them.] the cavities.

[To make this flat handle easier to grasp,]To make the flat handle of an embodiment of the present invention easier to grasp, in an embodiment of the present

invention, the half cavities in the mold forming the housing of [this] the handle have for this purpose at certain points symmetric differences of depth so as to press the plastic material coming out of the mass to make it flow back to other points [of these] in the more hollow half cavities [symmetrically and thus thicken] in a symmetric
5 manner. This feature thickens the handle at certain points, the cavities having made in this way a veritable hot mold [for], causing the plastic to flow back from less hollow points to more hollow points. [

]By this hot molding procedure one may also deform the handle on the part provided
10 for grasping it by creating undulations [in particular] to increase its bulk.

[Whether it involves said detachable or fixed handles, the technique which would consist in obtaining it by blowing would be such as to pose problems of tightness in the case of manufactures done by mass production.

15 An] In an embodiment of the present invention, an antiseptic, whether perfumed or not, is grafted for hygiene [into the material constituting the body of the improved urinal, in that of its handle and in that of its anti-backflow system, as well as in that of its filler.

20 Plugs, capsules, handles, and anti-backflow are of a density such that in case of falling into the water they float and are thus easily retrievable.

To make the use of the improved safety urinal even more practical, a urinal carrier which is hung on the side of the bed by a kind of hook is established for retaining the
25 said urinal available which remains thus within handy reach of the bedridden patient.

This urinal carrier is essentially constituted of only three branches sterilizable at 130°C suitably curved forming an open cage whose components are joined only at

two points by welding as applicable. The combination may likewise be made of a single piece of plastic material by molding.

5 This urinal carrier constitutes a type of open cradle in which the improved safety urinal rests. For this purpose its shape and its dimensions are specially established to receive said urinal and to keep it laterally in a vertical position (neck in the air).

10 It is sufficiently open in the front to leave easily accessible the grasping notches and/or the handle of said urinal. So that the ends of the legs which constitute it are not harmful, they are fitted with tips of flexible material. Its great simplicity makes its mass production trouble free and facilitates its maintenance and its disinfection.

Modes of implementation of the invention are described below by way of non-limiting examples with references to the figures of the enclosed drawings in which:

15

Figure 1 [according to the invention is] presents an elevation view [with] of an embodiment of the present invention showing a partial cutaway along [CD of the improved safety urinal illustrating the principle of the anti-backflow]the line CD (shown in Figure 4) of the urinal body. Features illustrated include the anti-backflow
20 element, which can be unscrewed at the neck, [of] the ["] quick emptying [" system] feature with its threaded neck offering a relatively limited internal section for emptying, [[]and [] of] the protuberance forming tab to fit exactly in a detachable way in the slide or an analogous system situated in the base of an attachable handle. In Figure 1, the urinal 1 shown illustrates some of the invention's unique features. A
25 hole 2 situated above the normal filling level of the urinal 1 is surmounted by a conduit 3 with its threading 4 established so as to allow screw attachment of a self-jointing, lipped cap 8 for plugging the hole 2. The anti-backflow element 5 is attached by a screwable (threaded) fitting [the handle.

Figure 2 according to the invention is an elevation view with a half-cutaway of a self-jointing screw capsule (with lip). Inside a disinfectant tablet is inserted elastically.

- 5 Figure 3 according to the invention is an elevation view with a partial cutaway of the base of the removable handle showing the slide or an analogous system in slides the tongue situated above the improved safety urinal.

- Figure 4 according to the invention is a rear elevation view of the improved safety
10 urinal with a half-cutaway along AB showing the sectional profile of the tab sliding in the slide situated under the handle.

Figure 5 according to the invention is a rear elevation view of the detachable handle showing with dotted lines the section of its slide with the housing for the stub.

- 15 Figure 6 according to the invention is a casual perspective view on a very reduced scale of the improved safety urinal constituted with three curved rods assembled by welding. Their ends are fitted with tips of flexible material.

- 20 As represented in Figure 1, the improved safety urinal (1) illustrates certain elements which comprise its originality. A hole (2) situated above the normal filling level of the improved safety urinal (1) is surmounted by a conduit (3) with its threading (4) established in particular to screw on it a self-jointing lip capsule (8) for plugging it. Its anti-backflow system (5) is screwed] so as to be water-tight [on the neck of the
25 improved safety urinal (1) to permit turning said urinal in any direction] and so that the element 5 is held within the neck of the urinal 1. The anti-backflow element 5 permits orienting of the urinal 1 at any angle when normally filled without its contents escaping. [Its tab (6) permits the slide (12) of the handle to come and snap] A tab 6

situated at the top of the urinal 1 permits the slide (not shown in Figure 1; see slide 12 in Figure 3) of the handle (not shown in Figure 1; see Figure 3) to be attached by snapping on in a detachable way [and to be positioned by the stub (7)]. The handle is further held in place by a stub 7 after having been stopped by [the stop (13).] a stop on the handle (not shown in Figure 1; see Figure 3).

[As represented] The functioning of the anti-backflow element 5 can be discerned by further examination of Figure 1 (see also Figure 4, below). When a little liquid flow is introduced in the element 5, the liquid travels by gravity through the tubular funnel shape portion of the anti-backflow element 5 towards its smaller end. This liquid then flows into the body of the urinal 1 and an equivalent volume of air escapes from the urinal 1 via the smaller end of the anti-backflow element 5. The diameter of the smaller end of the anti-backflow element 5 is designed so it cannot be completely obstructed by liquid flow: the air escapes, and there is no liquid backflow inside the anti-backflow element 5 nor spillage from the urinal.

Figure 1A presents an elevation view of an embodiment of the present invention similar to that view presented in Figure 1 but with a permanently attached handle 11 shown.

Figure 2 presents an elevation view of an embodiment of the present invention showing a partial-cutaway of the self-jointing screw cap (with lip). Inside the lip, a disinfectant tablet is inserted elastically. As shown in Figure 2, a self-jointing screw [capsule (8) intended to be screwed on the conduit (3) and to plug it in a water-tight way with its conical lip (9). A tablet (10) of cap 8 is attachable by screwing (threading) onto the conduit 3. The cap 8 is designed so as to plug the conduit 3 in a water-tight manner in conjunction with a conical lip 9. A tablet 10 of, for example, disinfectant product is housed elastically in [its] the lip 9 to help sanitize the inside of the [improved safety urinal (1).] urinal 1 when the cap 8 is installed.

[As represented] Figure 3 presents an elevation view of an embodiment of the present invention showing a partial cutaway of the base of the removable handle

showing the slide or an analogous system of slides and tongue for attachment of the handle to the urinal. As shown in Figure 3, the detachable handle [(11)] 11 with its slide [(12)] 12 is equipped with a stop [(13)] 13 against which the tap [(6)] stops positioned by its housing (14)](not shown in Figure 3; see tap 6 in Figure 1) stops the handle 11 against the housing 14 of the handle 11 when by sliding the stub [(7)](not shown in Figure 3; see stub 7 in Figure 1) penetrates into the [latter.] handle 14.

[As represented in Figure 4 the improved safety urinal (1)] Figure 4 is a rear elevation of the embodiment of the present invention shown in Figure 1 for a half-cutaway view along the line AB (shown in Figure 1) and containing the sectional profile of the tab for sliding in the slide of the handle. Figure 4 includes the urinal 1 with its anti-backflow [system (5) shows] element 5, from an end view, and the profile of the tab [(6)] and of the stub (7).] 6 and the stub 7.

[As represented in] Figure 5 presents the detachable handle for an embodiment of the present invention from a rear elevation view showing with dotted lines the section of the handle's slide containing the housing for the stub. In figure 5, the handle [(11)] is seen with its slide (12) represented by the dotted lines and its housing (14)] 11 has an inner vacancy 12 for the slide of the urinal and a housing 14 for receiving the stub of the urinal.

Figure 6 presents a perspective view, on a very reduced scale, of the carrier for the improved safety urinal for an embodiment of the present invention, in which the carrier consists of three curved rods assembled by welding and ends fitted with tips of flexible material. As shown in Figure 6, in this embodiment the urinal carrier consists of three rods 16, 17, and 18 judiciously bent, and assembled via attachment at two points, to form an open cradle that offers [.

As represented in Figure 6, the urinal carrier constituted of 3 rods (16), (17), and (18) judiciously bent, are assembled in 2 points to form a wide open cradle which thus offers an] easy access to the prehension notches of the urinal of the present invention.

- 18 -

as well as to the handle[(15) of the improved safety urinal (1). The upper branch],
The spine branch 18 is curved to form a hook [(19)] 19 for hanging [it] the carrier. So
that the ends of the rods do not cause injury, they are fitted with tips [(20)] 20 of
flexible material. [These three rods are preferably] In an embodiment of the present
5 invention, the rods 16, 17, and 18 consist of painted or plastic covered iron or [of]
stainless steel.

What [steel.

What] is claimed is:

- 5 1. A urinal of translucent or transparent plastic material with its handles ,
a screw capsule, the combination being capable of enduring a
sterilization temperature, containing partially in its neck an anti-backflow
system of plastic material able to endure a sterilization temperature,
having approximately the shape of a funnel whose larger opening is attached
10 directly so as to be water-tight and detachable on the neck of the urinal
from which it overhangs and whose smaller opening empties essentially into the
heart of the volume remaining in said urinal, characterized toward the
middle of its top by a system of attaching its handle and above its normal
filling level, approximately toward the opposite end of its neck, a hole
15 which traverses its wall and is surmounted by a conduit of a cross section
which is just enough, surrounded by a threading which channels the
emptying, forms a pouring spout, orients and directs the jet in a precise way
and is plugged with the aid of a plugging system.
- 20 2. A urinal according to claim 1, characterized by the fact that the plugging
system of the conduit surrounded by a threading having a pitch to the
right is a self-jointing screw capsule with lip with a threading having a

right hand thread pitch.

3. A urinal according to claim 1 and 2, characterized by the fact that the system for plugging the conduit surrounded by a threading having a
5 right hand thread pitch is a screw capsule known as a self-jointing child safety capsule having a right hand thread pitch.
4. A urinal according to claims 1, 2, and 3, characterized by a threading which surrounds the conduit having a left hand thread pitch and a capsule,
10 likewise having a left hand thread pitch.
5. A urinal according to the claims 1, 2, 3, and 4, characterized by the fact that the outside contour of these capsules is grooved or contains cut off corners.
15
6. A urinal according to the claims 1, 2, 3, 4, and 5, characterized by the outside of these capsules being colored red, white, or green.
7. A urinal according to the claims 1, 2, 3, 4, 5, and 6, characterized by the
20 outside of these capsules being of a different color from that of said body of said improved safety urinal.

8. A urinal according to the claims 1, 2, 3, 4, 5, 6, and 7, characterized by the external material of these capsules which store photons in a lighted place, and then restores them in the form of luminous rays.

5

9. A urinal according to the claims 1, 2, 3, 4, 5, 6, 7, and 8, characterized by its lip forming a cavity containing a tablet of perfumed product.

10. A urinal according to claim 1, characterized its plastic material able to support a sterilization temperature of 130°C.

10

11. A urinal according to claim 1, characterized by a gauge introduced by the conduit to the proximity of the end of the anti-backflow system and when it is wetted it triggers an audio alarm.

15

12. A urinal according to claim 1, characterized by the anti-backflow system having a different color from that of the body of said urinal.

13. A urinal according to claim 1, characterized by the body of said urinal and its anti-backflow system being equipped with a screw system made with a right hand threading.

20

14. A urinal according to claim 1, characterized by the body of said urinal and its anti-backflow system being equipped with a screw system made with a left hand thread pitch.

5

15. A urinal according to claims 1 and 16 characterized by an inclination of the axis of its neck relative to the plane of its base being included between 10 and 30 degrees.

10 16. An improved safety urinal according to claim 1, characterized on the top of its body by a tab, a stub, and by its removable handle equipped on its lower part with a slide, a stop, a housing .

17. A urinal according to claim 1 and 15, characterized by the little bosses
15 coming out on the lower part of its handle against which the figures rest.

18. An improved safety urinal according to claim 1, characterized by a fixed and solid handle obtained directly by cutting the mass by the knives of the
20 mold from which there results a double wall which becomes simultaneously a single wall hot welded by pressing of the two parts of the mold judiciously

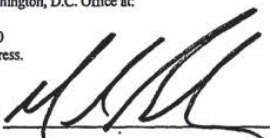
shaped which upon approaching exert a matrixing effect on said single wall,
increasing the thickness at certain points and reducing it in other points.

19. An improved safety urinal according to claim 1, characterized by its
5 plastic material being grafted with substances of a nature as to render it
antiseptic and/or perfumed.
20. A urinal carrier for an improved safety urinal according to claim 1,
characterized by a cradle composed of three rods and judiciously fashioned and
10 assembled, the rod opening its arms widely, the rod being curved to form a hook, the
ends of the three rods which hold the urinal being fitted with tips of a flexible
material.
21. An improved safety urinal according to claim 1, characterized by its
15 removable handle being of a dimension such that it can pass through it neck.

ABSTRACT

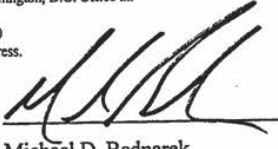
[A safety urinal according to the] The present invention [is] describes a urinal
of transparent or translucent plastic material[. It] that can endure a sterilization
5 temperature of 130°C[. It has a removable anti-backflow system especially by
unscrewing. Relative to the known models, it moreover contains a special "quick
emptying" system which in particular dispenses with removal of the anti-backflow for
emptying, prevents release of odors when emptying.] having a detachable anti-
backflow element. The present invention also contains an improved feature for quick
10 emptying, which dispenses with the necessity of removing the anti-backflow element
and thus the releasing of odors during emptying. The urinal also includes other
features, such as an internal odor tablet holding device, unique coloring and
phosphorescent features for selected elements of the urinal, a specially designed
cradle for holding or hanging the urinal, and either a fixed or attachable handle.

15

AMENDMENT TRANSMITTAL LETTER				Docket Number: GOU0001-PCT	
Application Number 08/737,879	Filing Date November 22, 1996		Examiner D. Walczak	Art Unit 3105	
Invention Title IMPROVED SAFETY URINAL			Inventor(s) Jacques GOUGET		
Address to: Assistant Commissioner of Patents Washington D.C. 20231 Transmitted herewith is an amendment in the above-identified application.					
I. The filing fee has been calculated as shown below:					
	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT NUMBER EXTRA	RATE (\$)
TOTAL CLAIMS	20	minus	20	0	22.00
INDEPENDENT CLAIMS	2	minus	3	0	82.00
MULTIPLE DEPENDENT CLAIM ADDED					250.00
					TOTAL
If applicant is a small entity under 37 C.F.R. §§ 1.9 and 1.27, then divide total fee by 2, and enter amount here.					SMALL ENTITY TOTAL
II. The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. 1.16 and 1.17 which may be required during the entire pendency of this application, or to credit any overpayment, to Deposit Account No. 11-0855. A duplicate copy of this sheet is enclosed.					
III. Applicants' undersigned attorney may be reached by telephone in our Washington, D.C. Office at: (202) 508-5800 All correspondence should continue to be directed to our below-listed address.					
KILPATRICK STOCKTON, LLP Suite 800 700 13th Street, N.W. Washington, D.C. 20005 (202) 508-5800 (telephone) (202) 508-5858 (facsimile) October 31, 1997			By:  Michael D. Bednarek Registration No.: 32, 329		



RECEIVED
91 NOV -4 AM 5:50
GROUP 3100

AMENDMENT TRANSMITTAL LETTER		Docket Number: GOU0001-PCT				
Application Number 08/737,879	Filing Date November 22, 1996	Examiner D. Walczak	Art Unit 3105			
Invention Title IMPROVED SAFETY URINAL		Inventor(s) Jacques GOUGET				
Address to: Assistant Commissioner of Patents Washington D.C. 20231		 RECEIVED 97 NOV -4 AM 5:55 GROUP 3100				
Transmitted herewith is an amendment in the above-modified application. I. The filing fee has been calculated as shown below:						
	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT NUMBER EXTRA	RATE (\$)	SEE (\$)
TOTAL CLAIMS	20	minus	20	0	22.00	
INDEPENDENT CLAIMS	2	minus	3	0	82.00	
MULTIPLE DEPENDENT CLAIM ADDED					250.00	
					TOTAL	
If applicant is a small entity under 37 C.F.R. §§ 1.9 and 1.27, then divide total fee by 2, and enter amount here.					SMALL ENTITY TOTAL	
II. The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. 1.16 and 1.17 which may be required during the entire pendency of this application, or to credit any overpayment, to Deposit Account No. 11-0855. A duplicate copy of this sheet is enclosed. III. Applicants' undersigned attorney may be reached by telephone in our Washington, D.C. Office at: (202) 508-5800 All correspondence should continue to be directed to our below-listed address. By:  Michael D. Bednarek Registration No.: 32, 329 KILPATRICK STOCKTON, LLP Suite 800 700 13th Street, N.W. Washington, D.C. 20005 (202) 508-5800 (telephone) (202) 508-5858 (facsimile) October 31, 1997 MOB/meds/K00094.094019/229879						

GOU0001-PCT

PATENT

#78
11-6-97
N.P.R.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the U.S. Application of

Jacques GOUGET

Group Art Unit: 3105

U.S. Serial No. 08/737,879

Examiner: Walczak, D.

Filed: November 22, 1996

For: IMPROVED SAFETY URINAL

Assistant Commissioner For Patents
Washington, D.C. 20231

RECEIVED
97 NOV -4 AM 5:53
GROUP 3100

SUPPLEMENTAL AMENDMENT

Sir:

Further to the amendment filed October 24, 1997, applicant requests entry of the following supplemental amendment with respect to the newly added FIG. 1A that was submitted with the substitute specification attached to that amendment. The newly added FIG. 1A contains no new matter. Included with this supplemental amendment is a letter to the official draftsman requesting approval of changes to the drawing.

IN THE DRAWINGS

Please add new FIG. 1A as shown in the attached Request for Approval of Drawing Changes.

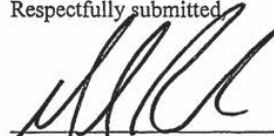
Serial No. 08/737,879
Art Unit: 3105

REMARKS

By the foregoing amendment, a new drawing has been added. In the Office Action mailed July 29, 1997, the Examiner objected to the drawings under 37 C.F.R. § 1.83(a) as allegedly not showing every feature of the invention specified in the claims. In particular, the fixed handle as claimed was allegedly not shown.

Newly added FIG. 1A, which shows the present invention with a fixed handle as claimed, was included with the substitute specification attached to the amendment filed October 24, 1997. This supplemental amendment clarifies that the newly added FIG. 1A is responsive to the Examiner's objection to the figures in the Office Action mailed July 29, 1997.

Respectfully submitted,



Michael D. Bednarek
Reg. No. 32,329

Date: Oct 31, 1997

KILPATRICK STOCKTON LLP
Suite 800
700 13th Street, N.W.
Washington, D.C. 20005
Tel: 202/508-5846

GOU0001-PCT

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the U.S. Application of

Jacques GOUGET

Group Art Unit: 3105

U.S. Serial No. 08/737,879

Filed: November 22, 1996

For: IMPROVED SAFETY UNIFORM

Assistant Commissioner for Patents
Washington, DC 20231



Examiner: Walczak, D.

RECEIVED
97 NOV -4 AM 5:54
GROUP 3100

#8
Letter &
Drawings
11-6-97
H.P.B.

LETTER TO THE OFFICIAL DRAFTSPERSON
REQUESTING APPROVAL OF CHANGES TO THE DRAWING

Sir:

It is respectfully requested that the Official Draftsperson having jurisdiction over the subject application enter new drawing FIG. 1A, as attached.

Respectfully submitted,

Michael D. Bednarek
Reg. No. 32,329

Date: Oct 31, 1997

KILPATRICK STOCKTON LLP
Suite 800
700 13th Street, N.W.
Washington, D.C. 20005
Tel: 202/508-5846

parent
of 9/30/02

08/737879

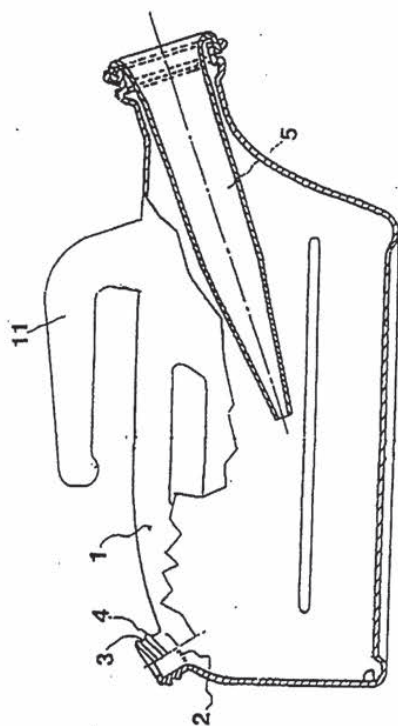


Fig. 1A

Transaction History Date 97-12-04
Date information retrieved from USPTO Patent
Application Information Retrieval (PAIR)
system records at www.uspto.gov

BEST COPY



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
60/00001	12/04/97	SOURET	J 60/00001-PCT

60/00001/1204

EXAMINER

WALCZAK, D

ART UNIT PAPER NUMBER

3105

DATE MAILED: 12/04/97

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary	Application No. 08/737,879	Applicant(s) Gouget	
	Examiner David J. Walczak	Group Art Unit 3105	

☒ Responsive to communication(s) filed on Oct 31, 1997

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 1 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claims

☒ Claim(s) 22-41 is/are pending in the application.

Of the above, claim(s) _____ is/are withdrawn from consideration.

☐ Claim(s) _____ is/are allowed.

☐ Claim(s) _____ is/are rejected.

☐ Claim(s) _____ is/are objected to.

☒ Claims 22-41 are subject to restriction or election requirement.

Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been received.

☐ received in Application No. (Series Code/Serial Number) _____.

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

☐ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). _____

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

Serial Number: 08/737,879

Page 2

Art Unit: 3105

DETAILED ACTION

Restriction

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 22-40, drawn to a urinal, classified in class 4, subclass 144.1.
- II. Claim 40, drawn to a holder, classified in class 248, subclass 175.

12/5/97
D

2. The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention II has separate utility such as holder used to support an article other than a urinal. See MPEP § 806.05(d).

3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, have acquired a separate status in the art because of their recognized divergent subject matter and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Serial Number: 08/737,879.

Page 3

Art Unit: 3105

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dave Walczak whose telephone number is (703) 308-0608.

D Walczak

December 3, 1997


DAVID J. WALCZAK
PRIMARY EXAMINER
GROUP 3100

GOU0001-PCT



PATENT

#11
Election
3-3-98
H.P.B.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the U.S. Application of

Jacques GOUGET

Group Art Unit: 3105

U.S. Serial No. 08/737,879

Examiner: Walczak, D.

Filed: November 22, 1996

For: IMPROVED SAFETY URINAL

Assistant Commissioner for Patents
Washington, DC 20231

RESPONSE TO RESTRICTION REQUIREMENT

Sir:

Responsive to the restriction requirement mailed December 4, 1997, applicant hereby elects the embodiment of Group I (claims 22-40) without traverse.

A prompt and favorable Office action on the merits of this application is now requested.

Should the Examiner determine that further action is necessary to place this application into even better form, he is encouraged to telephone applicant's undersigned representative at the number listed below.

Respectfully submitted,

Jacques GOUGET

A handwritten signature in dark ink, appearing to read "M. Bednarek", written over a horizontal line.

By: Michael D. Bednarek
Reg. No. 32,329

Dated: February 4, 1998
KILPATRICK STOCKTON, LLP
Suite 800
700 Thirteenth Street, N.W.
Washington, DC 20005
(202) 508-5800
KIDB/emc/00094.16436924174



GP3105
#10
Ext. (mo)
3-3-98
h.p.b.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the U.S. Application of
JACQUES GOUGET

Group Art Unit: 3105

U.S. Serial No. 08/737,879

Examiner: Walczak, D.

Filed: November 22, 1996

For: IMPROVED SAFETY URINAL

Assistant Commissioner for Patents
Washington, DC 20231

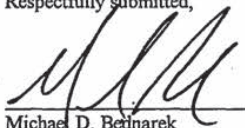
**PETITION TO EXTEND TIME FOR RESPONSE
TO WITHIN THE FIRST MONTH**

Sir:

The applicant, through his attorney, hereby petitions to extend time for response to the Office
Action of December 4, 1997, to within the first extended month.

The Commissioner is hereby authorized to charge any additional fees associated with this
communication or credit any overpayment to Deposit Account 11-0855. A duplicate copy of this letter is
enclosed for that purpose.

Respectfully submitted,


Michael D. Bednarek
Reg. No. 32,329

/1998 EKURTZ 00000110 DAW:110855 08737879
215 55.00 CH

Kilpatrick Stockton LLP
Suite 800
700 - 13th Street, NW
Washington, DC 20005
(202) 508-5888
Dated: February 4, 1998



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
-----------------	-------------	----------------------	---------------------

08/737,879 11/22/96 GOUGET J GOU0001-PCT

QMS1/0331

KILPATRICK & CODY LLP
700 13TH STREET NW
SUITE 800
WASHINGTON DC 20005

EXAMINER

WALCZAK, D

ART UNIT

PAPER NUMBER

3751

DATE MAILED:

03/31/98

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary	Application No. 08/737,879	Applicant(s) Gouget
	Examiner David J. Walczak	Group Art Unit 3105

☒ Responsive to communication(s) filed on Feb 4, 1998

☒ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire three month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claims

☒ Claim(s) 22-41 is/are pending in the application.

Of the above, claim(s) 41 is/are withdrawn from consideration.

☐ Claim(s) _____ is/are allowed.

☒ Claim(s) 22-40 is/are rejected.

☐ Claim(s) _____ is/are objected to.

☐ Claims _____ are subject to restriction or election requirement.

Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

☒ The proposed drawing correction, filed on Oct 31, 1997 is ☒ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been

☐ received.

☐ received in Application No. (Series Code/Serial Number) _____

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

☐ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). _____

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

Art Unit: 3751

DETAILED ACTION

Restriction

1. Applicant's election without traverse of Group I (claims 22-40) in Paper No. 11 is acknowledged.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "cut off corners" (claim 27), "gauge" (claim 31) and the "extended bosses" (claim 36) must be shown or the features canceled from the claims. No new matter should be entered.

Specification

3. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: The "guage" as defined in claim 31 does not have antecedent basis in the specification.

Art Unit: 3751

Claim Rejections - 35 USC § 112

4. Claim 1 is rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor, at the time the application was filed, had possession of the claimed invention. The recitation of the smaller end of the anti-backflow element being positioned at the center point of the urinal is considered to be new matter. Further, Figure 1 shows the end of the anti-backflow element being positioned closer to the bottom of the urinal and not at a "center point" thereof.

5. Claims 22-40 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In regard to claim 22, an antecedent basis for "the normal filling level" (line 4) and "the center point" (the last line) should be defined. In regard to claims 23-40, these claims are indefinite in that they depend from a claim which has been canceled, i.e., claim 1.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chenault.

Art Unit: 3751

The Chenault reference discloses a urinal body 1 with an interior, a planar base, an elongated neck portion with an axis of elongation having an opening for receiving a anti-backflow element 2 and a conduit opening located above "the normal filling level" of the urinal, stopping means 8 with an outside contour and an inside contour, conduit attaching means for attaching the stopping means to the conduit opening such that a water-tight seal forms, an anti-back flow element 2 insertable within the urinal neck and having a body comprising a funnel shape with a larger end opening and a smaller end opening and neck attaching means for attaching the larger end opening to the neck of the urinal body such that a water-tight seal forms and such that the smaller end opening overhangs into the urinal body interior. Although the smaller end opening does not appear to be at the center point of the urinal body, it is the Examiner's position that it would have been obvious to one of ordinary skill in the art at the time the invention was made that the urinal body could be configured to have a wide variety of shapes, including a shape in which the smaller end opening is positioned at the center of the body, without effecting the overall operation of the device.

Response to Arguments

8. Applicant's arguments filed on 2/4/98 have been fully considered but they are not persuasive. The Applicant contends that the smaller end of the anti-backflow element of Chenault is not positioned at the center point of the urinal, however, as discussed supra, such a positioning of the end of the anti-backflow element depends upon the shape of the urinal and said shape can obviously have any suitable configuration.

Serial Number: 08/737,879

Page 5

Art Unit: 3751

Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dave Walczak whose telephone number is (703) 308-0608

D Walczak

March 30, 1998

F. J. Walczak
DAVID J. WALCZAK
PRIMARY EXAMINER
GROUP 3100

Corres. and Mail
BOX AF

AF/Gaw 3751

AMENDMENT TRANSMITTAL LETTER		Docket Number: GOU001-PCT	
Application Number 08/737,879	Filing Date November 22, 1996	Examiner Walczak, D.	Art Unit 3105
Invention Title: IMPROVED SAFETY URINAL		Inventor(s) Jacques GOUGET	

I. The filing fee has been calculated as shown below:

	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT NUMBER EXTRA	RATE (\$)	FEE (\$)
TOTAL CLAIMS	20	minus	20	0	0.00	
INDEPENDENT CLAIMS	1	minus	3	0	0.00	
MULTIPLE DEPENDENT CLAIM ADDED					0.00	
					TOTAL	
If applicant is a small entity under 37 C.F.R. §§ 1.9 and 1.27, then divide total fee by 2, and enter amount here.					SMALL ENTITY TOTAL	

II. The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. 1.16 and 1.17 which may be required during the entire pendency of this application, or to credit any overpayment, to Deposit Account No. 11-0855. A duplicate copy of this sheet is enclosed.

III. Applicants' undersigned attorney may be reached by telephone in our Washington, D.C. Office at:

(202) 508-5800

All correspondence should continue to be directed to our below-listed address.

By: 

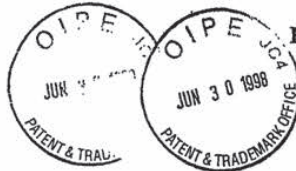
Michael D. Bednarek
Registration No.: 32, 329

KILPATRICK STOCKTON, LLP
Suite 800
700 13th Street, N.W.
Washington, D.C. 20005
(202) 508-5800 (telephone)
(202) 508-5858 (facsimile)

Date: June 30, 1998

300BAG/T0092.100008/27088

GOU001-PCT



RESPONSE UNDER 37 C.F.R. 1.116
EXPEDITED PROCEDURE
EXAMINING GROUP: 3105

PATENT

h.e.
1310
7/2/98

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the U.S. Application of

Jacques GOUGET

Group Art Unit: 3105

U.S. Serial No. 08/737,879

Examiner: Walczak, D.

Filed: November 22, 1996

For: IMPROVED SAFETY URINAL

Assistant Commissioner for Patents
Washington, DC 20231

AMENDMENT AFTER FINAL REJECTION UNDER 37 C.F.R. §1.116

Sir:

Responsive to the final Office Action mailed March 31, 1998, applicant requests entry of the following amendment.

IN THE DRAWINGS

Please amend FIGs. 1, 1A, 2, and 4 as shown in the attached Request for Approval of Drawing Changes.

h.e.
7/1/98

Atty. Docket No.: GOU0001-PCT
S.N.: 08/737,879
Art Unit: 3105

IN THE SPECIFICATION

Page 11 (substitute specification of October 24, 1997), line 27, after "features.", please add the following new sentence: --The urinal 1 includes a fill line groove 1a, which shows the normal filling level not to be exceeded.--;

page 12, line 25, please replace "8" with --8, which includes grooves or contains cutoff corners,--;

page 13, line 7, after "14.", please add the following new sentence: --An example extended boss 15 on the handle 11, which provides a point upon which the fingers of the hand may grasp the handle 11, is also shown.--; and

line 11, after "its", please add --groove 1a showing the normal fill line,--.

IN THE CLAIMS

Please amend claims 22-30, 32-34, 37-38, and 40 as follows:

22. A urinal, comprising:

a urinal body comprising a translucent or transparent plastic material capable of enduring a sterilization temperature with an interior having a center point and a normal filling level, a planar base, an elongated neck portion with an axis of elongation having an opening

Atty. Docket No.: GOU0001-PCT
S.N.: 08/737,879
Art Unit: 3105

for receiving an anti-backflow element, and a conduit opening located above the normal filling level of the urinal;

stopping means with an outside contour and an inner contour;

conduit attachment means for attaching the stopping means to the conduit opening such that a water-tight seal forms, wherein the conduit attachment means allows directed flow from the urinal body;

an anti-backflow element insertable within the urinal neck, the anti-backflow element having a body comprising a funnel shape with a larger end opening and a smaller end opening; and

neck attaching means for attaching the larger end opening of the anti-backflow element to the neck of the urinal body such that a water-tight seal forms and such that the smaller end opening is oriented so as to overhang into the urinal body interior and the smaller end opening is situated at the center point of the urinal body.

23. The urinal according to claim [1] 22, further comprising:

a handle attachment means on the urinal body; and

a handle attachable to the handle attachment means.

Atty. Docket No.: GOU0001-PCT
S.N.: 08/737,879
Art Unit: 3105

24. The urinal according to claim [1] 22, wherein the conduit attachment means comprises a left-hand threading means.

25. The urinal according to claim [1] 22, wherein the conduit attachment means further includes a self-jointing safety feature.

26. The urinal according to claim [1] 22, wherein the exterior contour of the stopping means comprises grooves.

27. The urinal according to claim [1] 22, wherein the exterior contour of the stopping means comprises cut off corners.

28. The urinal according to claim [1] 22, wherein the color of the exterior contour of the stopping means is distinguishable from the color of the urinal body.

29. The urinal according to claim [1] 22, wherein the stopping means comprises a phosphorescent material.

Atty. Docket No.: GOU0001-PCT
S.N.: 08/737,879
Art Unit: 3105

30. The urinal according to claim [1] 22, wherein the stopping means further comprises a lip within the inner contour of the stopping means such that a cavity for holding a tablet of perfumed product is formed.

32. The urinal according to claim [1] 22, wherein the color of the anti-backflow element is distinguishable from the color of the urinal body.

33. The urinal according to claim [1] 22, wherein the neck attachment means comprises a left-hand threading means.

34. A urinal according to claim [1] 22, wherein the axis of the neck is inclined relative to the plane of the base of the urinal at an angle between 10 and 30 degrees.

37. A urinal according to claim [1] 22, wherein the material of construction of the urinal comprises plastic material grafted with substances of a nature so as to render the urinal antiseptic.

Atty. Docket No.: GOU0001-PCT
S.N.: 08/737,879
Art Unit: 3105

38. A urinal according to claim [1] 22, wherein the material of construction of the urinal comprises plastic material grafted with substances of a nature so as to render the urinal perfumed.

40. The urinal according to claim [1] 22, further comprising a handle attached to the urinal body.

Please add new claims 42 and 43, as follows:

--42. The urinal of claim 22 further including a groove on the urinal body, the groove indicating the normal filling level for the urinal, wherein the groove is positioned so as to prevent spill from the urinal so long as the urinal is not filled beyond the normal filling level.--

--43. The urinal of claim 22 wherein the urinal body has at least two opposing sides, further including a pair of grooves, one groove on each of two opposing sides of the urinal body, each groove indicating the normal filling level for the urinal, wherein each groove is positioned so as to prevent spill from the urinal so long as the urinal is not filled beyond the normal filling level.--

Atty. Docket No.: GOU0001-PCT
S.N.: 08/737,879
Art Unit: 3105

Please cancel claim 31 without prejudice or disclaimer.

REMARKS

Entry of this amendment and reconsideration of this application are respectfully requested in view of the above amendments and the following remarks and because entry of this amendment places this application in clear condition for allowance.

In the Office Action mailed March 31, 1998, the Examiner noted that the Applicant had elected Group I (claims 22-40) without traverse in response to the Examiner's restriction requirement of December 4, 1997, which required election between Group I and Group II (claim 41). Thus, claim 41 is withdrawn. By the foregoing amendment, the Drawings, specification, and claims 22-30, 32-34, 37-38, and 40 have been amended, claim 31 has been canceled, and new claims 42-43 have been added. Thus, claims 22-30, 32-40, and 42-43 remain pending.

In the Office Action, the Examiner objected to the drawings and specification, rejected claim 22 under § 112, first paragraph, rejected claims 22-40 under § 112, second paragraph, and rejected claim 22 under § 103 (a) as unpatentable over U.S. Patent No. 2,358,850 to Chenault.

With regard to the objections to the drawings, FIG. 2 and the corresponding portion of the specification have been amended so as to show the grooves or "cut off corners" claimed in

Atty. Docket No.: GOU0001-PCT
S.N.: 08/737,879
Art Unit: 3105

claim 27; the specification has also been amended to clarify that an example "extended boss" 15 is shown in FIG. 3. With regard to the objection to the "gauge" claimed in claim 31, please note that claim 31 has been canceled without prejudice or disclaimer. Also, FIGs. 1, 1A, and 4 and the corresponding text relating to FIGs. 1, 1A, and 4 have been amended to clarify the position of the groove in the device showing the normal filling level.

With regard to the objection to the specification for failing to provide antecedent basis for the "gauge" claimed in claim 31, please note that claim 31 has been canceled without prejudice or disclaimer.

With regard to the rejection of claims 22-40 under § 112, second paragraph; claim 22 has been amended so as to provide antecedent basis for "the normal filling level" and "the center point." Claim 22 has also been amended so as to indicate that the urinal body comprises a translucent or transparent material capable of enduring a sterilization temperature and to indicate that the conduit attachment means allows directed flow from the urinal body. Applicant has also amended claims 23-30, 32-34, 37-38, and 40 so as to properly depend from claim 22. Applicant respectfully submits that claims 35-36 and 39 properly depend from claim 23, and that the Examiner appears to have made a typographical error in rejecting these claims under § 112, second paragraph. If this is incorrect, Applicant requests that the Examiner contact Applicant's representative. Applicant has added new claims 42 and 43 drawn to a groove and grooves in the urinal for indicating the normal fill level.

Atty. Docket No.: GOU0001-PCT
S.N.: 08/737,879
Art Unit: 3105

With regard to the Examiner's rejection of claim 22 under § 112, first paragraph, for failure to recite the smaller end of the anti-backflow element as being positioned at the center point of the urinal, Applicant respectfully points out that FIG. 1 does show the smaller end of the element at the center point of the urinal. FIG. 1 presents the urinal in two dimensions, and this is why the smaller end of the element, which is closer to the bottom in two dimensions, is also actually at the center point with respect to the shape and volume of the urinal (the barycenter of the urinal; see also FIG. 4). Thus, this position must be considered in three dimensions; it is not a point only defined by the elevation area of the container, but one defined by its volume.

With regard to the rejection of claim 22 under § 103, Applicant has amended the claim to clarify that the urinal body is comprised of a translucent or transparent plastic material capable of enduring a sterilization temperature and that the conduit attachment means allows directed flow from the urinal body. The device of Chenault does not include these limitations of claim 22, as amended. The translucency/transparency feature of the urinal allows for the checking of the level of the content inside the body and thus allows limiting of the filling level up to the smaller end of the antibackflow element. As claimed in claim 22, this smaller end is located at the volumetric center (barycenter) of the body of the urinal. The conduit attachment allows directed flow of the contents from the urinal so as to reduce likelihood of spillage during emptying.

Atty. Docket No.: GOU0001-PCT
S.N.: 08/737,879
Art Unit: 3105

Further, claim 22 clearly includes a urinal body having a conduit opening located above the normal filling level of the urinal. The location of the conduit opening is important for operation of the urinal in conjunction with the use of the antibackflow element having its smaller end located at the volumetric center of the urinal. These two features, along with the use of translucent/transparent material of construction, which allows the user to determine whether the normal filling level has been reached, provide advantages over the urinal of Chenault.

These advantages over the urinal of Chenault include the following. The translucency/opacity of the urinal (along with the fill level groove or grooves, which are claimed in new claims 42 and 43) allows the user to assure that the urinal is not filled above its normal filling level. At this level, the contents of the urinal remain below the smaller end of the anti-backflow element. Thus, the urinal may be tilted in any direction without the urinal spilling. Since the conduit opening is above the normal fill level and above the level of the smaller end of the antibackflow device, when the urinal is upright (e.g., in the position as shown in FIG. 1), the conduit opening may be opened without spilling the contents, and then the urinal may be tilted and flow from the urinal directed from the conduit opening by tilting the urinal. No spilling from the antibackflow device occurs during tilting because of the position of the smaller end of the antibackflow device and because the contents are

Atty. Docket No.: GOU0001-PCT
S.N.: 08/737,879
Art Unit: 3105

maintained below the normal filling level. (Attached to this response are instructional pages regarding the operation of the urinal that further clarify the operation of the urinal.)

The urinal of Chenault is neither translucent/transparent nor does it include any indicator for determining the normal fill level so as to assure that the contents do not exceed the normal fill level. The urinal of Chenault also includes an opening that is shown on the lower side of the urinal at a level below the level of the smaller end of the antibackflow device. Thus, the urinal of Chenault does not assure that no spillage of the contents occurs during emptying via the opening, as the contents may exceed the level of the opening.

Also, Applicant respectfully points out that, with respect to the device of Chenault, it would not have been sensible to provide an indicator of the level of the contents since the device of Chenault provides no way to determine an appropriate level. In addition, the patent of Chenault teaches away from use of the transparent/translucent material or other method of preventing overfilling, as the patent of Chenault indicates that to totally prevent leakage (only when its device was not in use), a cover should be placed on the device (column 1, line 3). Such a cover would be unnecessary with regard to the present invention.

Further, the patent of Chenault indicates that its container is only intended to minimize leakage (column 1, line 5), while the urinal of the present invention totally prevents spillage due to the urinal's transparent/translucent composition, which allows visually filling the urinal within the limit of the capacity of its anti-spillage system.

Atty. Docket No.: GOU0001-PCT
S.N.: 08/737,879
Art Unit: 3105

Applicant also submits that, with regard to the rejection under § 103, the Examiner has not yet set forth a prima facie case of obviousness. The PTO has the burden under § 103 to establish a prima facie case of obviousness. In re Fine, 5 USPQ2d 1596, 1598 (Fed. Cir. 1988). Both the case law of the Federal Circuit and the PTO itself has made clear that where a modification must be made to the prior art to reject or invalidate a claim under § 103, there must be a showing of proper motivation to do so. The mere fact that a prior art reference could be modified to meet the claim is insufficient to establish obviousness. The PTO "can satisfy this burden only by showing some objective teaching in the prior art or that knowledge generally available to one of ordinary skill in the art would lead that individual to combine the relevant teachings of the references." Id. In order to establish obviousness, there must be a suggestion or motivation in the reference to do so. See also In re Gordon, 221 USPQ 1125, 1127 (Fed. Cir. 1984) (prior art could not be turned upside down without motivation to do so). In the Office Action, the Examiner simply states without support that it would have been obvious to modify the single reference of the existing art so as to obtain the device of the present invention. There is, however, nothing in the applied reference to evidence the desirability of providing the particular features as claimed in the present invention.

Applicant therefore respectfully submits that claim 22, as amended, thus overcomes the rejection under § 103 with regard to the patent of Chenault, and is allowable, and that

Atty. Docket No.: GOU0001-PCT
S.N.: 08/737,879
Art Unit: 3105

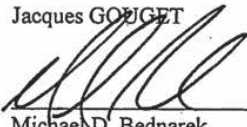
claims 23-30, 32-40, and 42-43, which depend from allowable claim 22, are likewise allowable.

Should the Examiner determine that any further action is necessary to place this application into even better form, the Examiner is encouraged to telephone the Applicant's undersigned representative at the number listed below.

Respectfully submitted,

Jacques GONGET

By:


Michael D. Bednarek
Registration No. 32,329

KILPATRICK STOCKTON LLP
Suite 800
700 13th Street, N.W.
Washington, D.C. 20005
(202) 508-5800

Date:
40948v.2

June 30, 1998

GOU0001-PCT



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the U.S. Application of

Jacques GOUGET

Group Art Unit: 3105

U.S. Serial No. 08/737,879

Examiner: Walczak, D.

Filed: November 22, 1996

For: IMPROVED SAFETY URINAL

Assistant Commissioner For Patents
Washington, D.C. 20231

**LETTER TO THE EXAMINER REQUESTING
APPROVAL OF CHANGES TO THE DRAWING**

Sir:

It is respectfully requested that the Examiner having jurisdiction over the subject application approve the changes to the drawings as shown in RED on the attached copy of FIGS. 1, 1A, 2 and 4. Specifically, it is requested that FIG. 2 be amended to correct the reference numeral 8 as 8a and add new reference numeral 8, and that FIGS. 1, 1A, and 4 be amended so as to indicate the fill groove 1a.

Respectfully submitted,

Date:

June 30, 1997

Michael D. Bednarek
Registration No. 32,329

KILPATRICK STOCKTON LLP
Suite 800
700 13th Street, N.W.
Washington, D.C. 20005
Tel: 202/508-5800

WSHLB01 41033.1



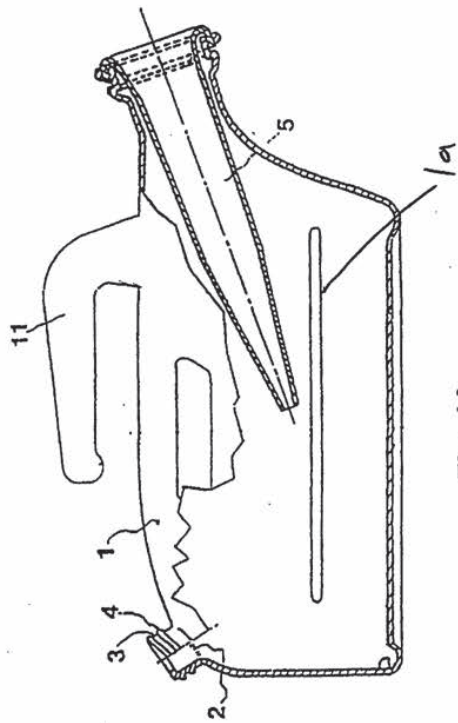


Fig. 1A

BEST COPY

NO COVER NEEDED!

URSEC®

A SIMPLE SOLUTION TO THE DELICATE PROBLEM OF URINALS



ADVANTAGES FOR THE PATIENT

- If URSEC rolls over in bed, there is no problem: sheets remain dry. It will not leak.
- It is strong, light and easy to handle, even in the dark. Emptying at the back with the MTQuick system (supplied with 2 caps).
- To seal the MTQuick system, twist on either... its childproof red cap which is easy to remove.
- The extra slope of the neck makes for easier use. No cover is needed. URSEC is always ready to be used.
- URSEC has a capacity of approximately 1 liter (32 oz). With URSEC, the patient can fall asleep peacefully.

ADVANTAGES FOR THE INSTITUTION

- SECURITY: even if URSEC is rolled over in bed, its contents cannot spill thanks to its simple but effective design.
- URSEC therefore prevents the discomfort of wet beds and avoids the need to frequently change and wash the patient's sheets.
- It helps to fight nosocomial infections and reduces the need for frequent disinfecting. URSEC is re-usable.
- At night URSEC can be left in the bed, instantly available to the patient who need not call for assistance.
- URSEC is nearly odor free and does not need a cover.
- Made in smooth clear recyclable plastic, URSEC has a transparency that allows you to check its contents.
- URSEC has a graduated measure up to 1 liter (32 oz).
- The handle allows for a firm grip of URSEC (removable).
- It is light, shock resistant and the MTQuick system together with the removable funnel makes it easy to clean and re-use.
- URSEC can be washed (with water + chlorine or disinfectant), sterilised by autoclave or ethylene oxide.
- The MTQuick system allows a quick, practically odorless and even more hygienic emptying.

USE

The name of the patient can be marked on URSEC.
URSEC should be placed in the bed or laid horizontally.
It should not be filled above the 1 liter mark (32 oz).
The plastic of URSEC does not yellow, urine does not adhere to it.
Once rinsed out, URSEC becomes clear again.



CLEANING

Rinse with water and chlorine or if good disinfectant
(Bleapan Vaseptol compatible).
To seal the MTQuick system, twist on the plug.
Sterilisable by autoclave (130°C or 265°F) or EIO.



EMPTYING VIA MTQuick

URSEC IS ECONOMICAL

- In Hospitals, Care centers, Retirement Homes or simply at home, using URSEC reduces the need for cleaning and disinfecting and provides an incomparable comfort to the patient. URSEC is very cost effective.
- URSEC® is a patented product (US patent pending) and is already used by many public and private institutions.

OPTIONAL EXTRAS

- Additional standard white cap (reference BOU001W)
- Additional childproof red cap (reference BOU002R)
- Additional handle (reference HAN001)



Support for URSEC (ref SUP001)
(to be attached to the bedside)



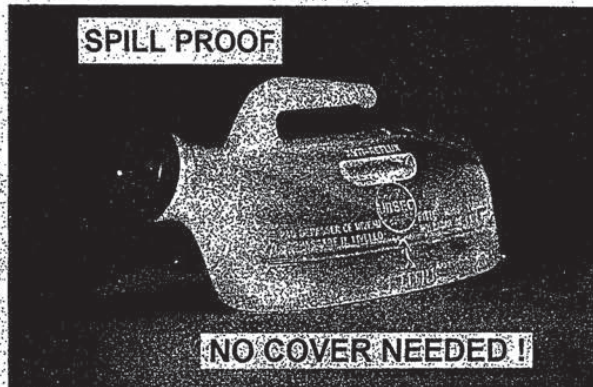
SURE TO BE SAFE



FOR THE ELDERLY, THE DISABLED, THE BEDRIDDEN, ...

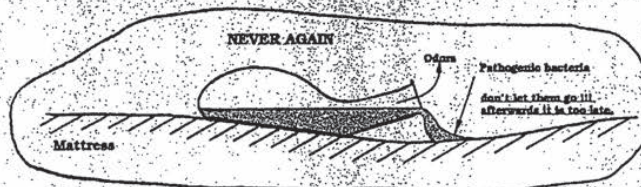
URSEC® URINAL

SPILL PROOF



NO COVER NEEDED!

A SIMPLE SOLUTION TO THE DELICATE PROBLEM OF URINALS



Thanks to its Anti-Reflux system
URSEC CONTENTS CANNOT SPILL OUT
(use capacity: approximately 1 liter or 32 oz)

- OPTIMUM SECURITY FOR PATIENTS AND THEIR ENVIRONMENT
- QUICK AND ODORLESS EMPTYING THANKS TO THE MTQUICK SYSTEM
- HANDY CLEANING (REMOVABLE ANTI-REFLUX)
- RE-USABLE AND ECONOMICAL
- SMOOTH RECYCLABLE PLASTIC

MADE IN FRANCE



Registered Trademark

GOUGET

MANUFACTURER

Department
SANOEX

3, RUE D'AUTEUIL - 75016 PARIS (FRANCE)
TEL: (33) 142 885 784 - FAX (33) 145 244 501

PRIX INTERMEDICA



PERFORMANCES 92

Transaction History Date 1998-07-13
Date information retrieved from USPTO Patent
Application Information Retrieval (PAIR)
system records at www.uspto.gov



**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office**

Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
-----------------	-------------	----------------------	---------------------

KILPATRICK & CODY LLP
700 13TH STREET NW
SUITE 800
WASHINGTON DC 20005

QM51/0713

EXAMINER
WALCZAK, D

ART UNIT	PAPER NUMBER
----------	--------------

DATE MAILED:

07/13/98

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Advisory Action

Application No. 08/737,879	Applicant(s) Gouget
Examiner David J. Walczak	Group Art Unit 3751

THE PERIOD FOR RESPONSE: (check only a) or b)]

- a) ☐ expires _____ months from the mailing date of the final rejection.
- b) ☒ expires either three months from the mailing date of the final rejection, or on the mailing date of this Advisory Action, whichever is later. In no event, however, will the statutory period for the response expire later than six months from the date of the final rejection.

Any extension of time must be obtained by filing a petition under 37 CFR 1.136(a), the proposed response and the appropriate fee. The date on which the response, the petition, and the fee have been filed is the date of the response and also the date for the purposes of determining the period of extension and the corresponding amount of the fee. Any extension fee pursuant to 37 CFR 1.17 will be calculated from the date of the originally set shortened statutory period for response or as set forth in b) above.

- ☐ Appellant's Brief is due two months from the date of the Notice of Appeal filed on _____ (or within any period for response set forth above, whichever is later). See 37 CFR 1.191(d) and 37 CFR 1.192(a).

Applicant's response to the final rejection, filed on Jun 30, 1998 has been considered with the following effect, but is NOT deemed to place the application in condition for allowance:

☒ The proposed amendment(s):

- ☐ will be entered upon filing of a Notice of Appeal and an Appeal Brief.
- ☒ will not be entered because:
- ☐ they raise new issues that would require further consideration and/or search. (See note below).
- ☐ they raise the issue of new matter. (See note below).
- ☒ they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal.
- ☒ they present additional claims without cancelling a corresponding number of finally rejected claims.

NOTE: Claim 22 still contains new matter regarding the center point and the recitation of the groove in Figures 1 and 4 as being a normal filling level is considered to be new matter.

- ☐ Applicant's response has overcome the following rejection(s):

- ☐ Newly proposed or amended claims _____ would be allowable if submitted in a separate, timely filed amendment cancelling the non-allowable claims.
- ☐ The affidavit, exhibit or request for reconsideration has been considered but does NOT place the application in condition for allowance because:

- ☐ The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection.

☒ For purposes of Appeal, the status of the claims is as follows (see attached written explanation, if any):

Claims allowed: _____

Claims objected to: _____

Claims rejected: 22-40

- ☒ The proposed drawing correction filed on Jun 30, 1998 ☐ has ☒ has not been approved by the Examiner.
- ☐ Note the attached Information Disclosure Statement(s), PTO-1449, Paper No(s). _____
- ☐ Other

David J. Walczak
DAVID J. WALCZAK
PRIMARY EXAMINER

GOU0001-PCT



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

JACQUES GOUGET

Serial No.: 08/737,879

Art Unit: 3751

Filed: November 22, 1996

Examiner: Walczak, D.

For: IMPROVED SAFETY URINAL

Assistant Commissioner of Patents
Washington, D.C. 20231

PETITION FOR EXTENSION OF TIME UNDER 37 C.F.R. § 1.136

Sir:

Applicant hereby petitions for a one month extension of time under Rule 136 to file a response to the outstanding Final Office Action mailed March 31, 1998 and submits herewith a check in the amount of \$55.00 for to cover the fees set forth in Rule 17.

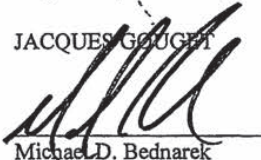
The Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Applicant's representative's Deposit Account No. 11-0855. A duplicate copy of this communication is attached for that purpose.

Respectfully submitted,

JACQUES GOUGET

Date: July 31, 1998

By:


Michael D. Bednarek
Registration No. 32,329

KILPATRICK STOCKTON LLP
700 13th Street, N.W., Suite 800
Washington, D.C. 20005
Tel: (202) 508-5800

GOU0001-PCT

PATENT

GAU
3751#15
\$8-1-98
\$4.78



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

JACQUES GOUGET

Serial No.: 08/737,879

Art Unit: 3751

Filed: November 22, 1996

Examiner: Walczak, D.

For: IMPROVED SAFETY URINAL

Assistant Commissioner of Patents
Washington, D.C. 20231

RECEIVED
AUG 06 1998

PETITION FOR EXTENSION OF TIME UNDER 37 C.F.R. § 1.136

GROUP 3200

Sir:

Applicant hereby petitions for a one month extension of time under Rule 136 to file a response to the outstanding Final Office Action mailed March 31, 1998 and submits herewith a check in the amount of \$55.00 for to cover the fees set forth in Rule 17.

35.00 DP
The Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Applicant's representative's Deposit Account No. 11-0855. A duplicate copy of this communication is attached for that purpose.

Respectfully submitted,

JACQUES GOUGET

Date: July 31, 1998

By:

Michael D. Bednarek
Registration No. 32,329

KILPATRICK STOCKTON LLP
700 13th Street, N.W., Suite 800
Washington, D.C. 20005
Tel: (202) 508-5800

Transaction History Date 1998-10-20
Date information retrieved from USPTO Patent
Application Information Retrieval (PAIR)
system records at www.uspto.gov



**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office**

Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
08/737,879	11/22/96	GOUGET	J GOU0001-PCT
KILPATRICK & CODY LLP 700 13TH STREET NW SUITE 800 WASHINGTON DC 20005			EXAMINER
QM51/1020			WALCZAK, D.
			ART UNIT PAPER NUMBER
			3751 16

DATE MAILED: 10/20/98

Please find below and/or attached an Office communication concerning this application or proceeding.

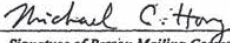
Commissioner of Patents and Trademarks

Notice of Abandonment	Application No. 08/737,879	Applicant(s) Gouget
	Examiner David J. Walczak	Group Art Unit 3751

This application is abandoned in view of:

- ☒ applicant's failure to timely file a proper response to the Office letter mailed on Jul 13, 1998.
- ☐ A response (with a Certificate of Mailing or Transmission of _____) was received on _____, which is after the expiration of the period for response (including a total extension of time of _____ month(s)) which expired on _____.
- ☐ A proposed response was received on _____, but it does not constitute a proper response to the final rejection.
(A proper response to a final rejection consists only of: a timely filed amendment which places the application in condition for allowance; a Notice of Appeal; or the filing of a continuing application under 37 CFR 1.62 (FWC)).
- ☒ No response has been received.
- ☐ applicant's failure to timely pay the required issue fee within the statutory period of three months from the mailing date of the Notice of Allowance.
- ☐ The issue fee (with a Certificate of Mailing or Transmission of _____) was received on _____.
- ☐ The submitted issue fee of \$ _____ is insufficient. The issue fee required by 37 CFR 1.18 is \$ _____.
- ☐ The issue fee has not been received.
- ☐ applicant's failure to timely file new formal drawings as required in the Notice of Allowability.
- ☐ Proposed new formal drawings (with a Certificate of Mailing or Transmission of _____) were received on _____.
- ☐ The proposed new formal drawings filed _____ are not acceptable.
- ☐ No proposed new formal drawings have been received.
- ☐ the express abandonment under 37 CFR 1.62(g) in favor of the FWC application filed on _____.
- ☐ the letter of express abandonment which is signed by the attorney or agent of record, the assignee of the entire interest, or all of the applicants.
- ☐ the letter of express abandonment which is signed by an attorney or agent (acting in a representative capacity under 37 CFR 1.34(a)) upon the filing of a continuing application.
- ☐ the decision by the Board of Patent Appeals and Interferences rendered on _____ and because the period for seeking court review of the decision has expired and there are no allowed claims.
- ☐ the reason(s) below:

David J. Walczak
DAVID J. WALCZAK
PRIMARY EXAMINER

Change Of Attorney Or Agent's Address In Application (37 CFR 1.8(a))			Docket No. GOU0001-PCT
In Re Application Of: JACQUES GOUGET			
Serial No. 08/737,879	Filing Date 11/22/96	Examiner DAVID J. WALCZAK	Group Art Unit 3751
Invention: IMPROVED SAFETY URINAL			
<u>TO THE ASSISTANT COMMISSIONER FOR PATENTS</u>			
Please send all correspondence for this application to:			
Michael D. Bednarek, Esq. CROWELL & MORING LLP 1001 Pennsylvania Ave., N.W. Washington, D.C. 20004-2595			
Please direct all telephone calls to:			
Michael D. Bednarek, Esq. (202) 624-2505			
 Signature of Attorney or Agent of Record		Dated: 3/5/99	
Michael D. Bednarek, Esq. Reg. No. 32,329 CROWELL & MORING LLP 1001 Pennsylvania Ave., N.W. Washington, D.C. 20004-2595		I certify that this document is being deposited on 3/5/99 with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.  Signature of Person Mailing Correspondence Michael C. Hong Typed or Printed Name of Person Mailing Correspondence	

Copyright 1997 LegalStar

P2F/K



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

CHANGE OF ADDRESS/POWER OF ATTORNEY

FILE LOCATION 9200 SERIAL NUMBER 08737879 PATENT NUMBER
THE CORRESPONDENCE ADDRESS HAS BEEN CHANGED TO CUSTOMER # 28970
THE PRACTITIONERS OF RECORD HAVE BEEN CHANGED TO CUSTOMER # 28970
THE FEE ADDRESS HAS BEEN CHANGED TO CUSTOMER # 28970
ON 03/20/03 THE ADDRESS OF RECORD FOR CUSTOMER NUMBER 28970 IS:

BRETT C. MARTIN
1650 TYSONS BOULEVARD
MCLEAN VA 22102

AND THE PRACTITIONERS OF RECORD FOR CUSTOMER NUMBER 28970 ARE:

31163	32329	34542	34878	38500	41009	41971	42115	42956	43475
44615	46271	51193	52000						

PTO INSTRUCTIONS: PLEASE TAKE THE FOLLOWING ACTION WHEN THE
CORRESPONDENCE ADDRESS HAS BEEN CHANGED TO CUSTOMER NUMBER:
RECORD, ON THE NEXT AVAILABLE CONTENTS LINE OF THE FILE JACKET,
'ADDRESS CHANGE TO CUSTOMER NUMBER'. LINE THROUGH THE OLD
ADDRESS ON THE FILE JACKET LABEL AND ENTER ONLY THE 'CUSTOMER
NUMBER' AS THE NEW ADDRESS. FILE THIS LETTER IN THE FILE JACKET.
WHEN ABOVE CHANGES ARE ONLY TO FEE ADDRESS AND/OR PRACTITIONERS
OF RECORD, FILE LETTER IN THE FILE JACKET.
THIS FILE IS ASSIGNED TO GAU 3751.

PTO-FMD
TALBOT-1/97

BEST COPY

PTO/SB/68 (02-10)

Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

REQUEST FOR ACCESS TO AN ABANDONED APPLICATION UNDER 37 CFR 1.14

Bring completed form to:
File Information Unit, Suite 3A20
2800 South Randolph Street
Arlington, VA 22202

Telephone: (703) 556-7800

In re Application of

Application Number

Filed

08-737879

NOV 11-1996

Paper No. 18

BY:

I hereby request access under 37 CFR 1.14(a)(1)(iv) to the application file record of the above-identified ABANDONED application, which is not within the file jacket of a pending Continued Prosecution Application (CPA) (37 CFR 1.53(d)) and which is identified in, or to which a benefit is claimed, in the following document (as shown in the attachment):

United States Patent Application Publication No. _____, page, _____ line

United States Patent Number 5953763, column _____, line, _____

WIPO Pub. No. _____, page _____, line _____

Related Information About Access to Applications Maintained in the Image File Wrapper System (IFW) and Access to Pending Applications in General

A member of the public, acting without a power to inspect, cannot order applications maintained in the IFW system through the FIU. If the member of the public is entitled to a copy of the application file, then the file is made available through the Public Patent Application Information Retrieval system (Public PAIR) on the USPTO internet web site (www.uspto.gov). Terminals that allow access to Public PAIR are available in the Public Search Room. The member of the public may also be entitled to obtain a copy of all or part of the application file upon payment of the appropriate fee. Such copies must be purchased through the Office of Public Records upon payment of the appropriate fee (37 CFR 1.19(b)).

For published applications that are still pending, a member of the public may obtain a copy of:

-the file contents; the pending application as originally filed; or any document in the file of the pending application.

For unpublished applications that are still pending:

- (1) If the benefit of the pending application is claimed under 35 U.S.C. 119(e), 120, 121, or 365 in another application that has: (a) issued as a U.S. patent, or (b) published as a statutory invention registration, a U.S. patent application publication, or an international patent application publication in accordance with PCT Article 21(2), a member of the public may obtain a copy of: the file contents; the pending application as originally filed; or any document in the file of the pending application.
- (2) If the application is incorporated by reference or otherwise identified in a U.S. patent, a statutory invention registration, a U.S. patent application publication, or an international patent application publication in accordance with PCT Article 21(2), a member of the public may obtain a copy of the pending application as originally filed.

Signature

Typed or printed name

Registration Number, if applicable

Telephone Number

FOR PTO USE ONLY

Approved by:

Unit:

BY:

This collection of information is required by 37 CFR 1.11 and 1.14. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. BRING TO: File Information Unit, Suite 3A20, 2800 South Randolph Street, Arlington, Virginia.

If you need assistance in completing the form call 1-800-PTO-9100 and select option 7



United States Patent [19]

Gouget

[11] Patent Number: 5,953,763

[45] Date of Patent: Sep. 21, 1999

[54] SAFETY URINAL.

[76] Inventor: Jacques Maurice Gougel, 3, Rue D'Auteuil, Paris 75016, France

[21] Appl. No.: 09/126,724

[22] Filed: Jul. 31, 1998

Related U.S. Application Data

[63] Continuation-in-part of application No. 08/737,879, Nov. 11, 1996, abandoned.

[51] Int. Cl.⁸ A47K 11/00

[52] U.S. Cl. 4/144.1; 4/449

[58] Field of Search 4/144.1, 144.2,
4/144.3, 144.4, 450, 454, 449

References Cited

U.S. PATENT DOCUMENTS

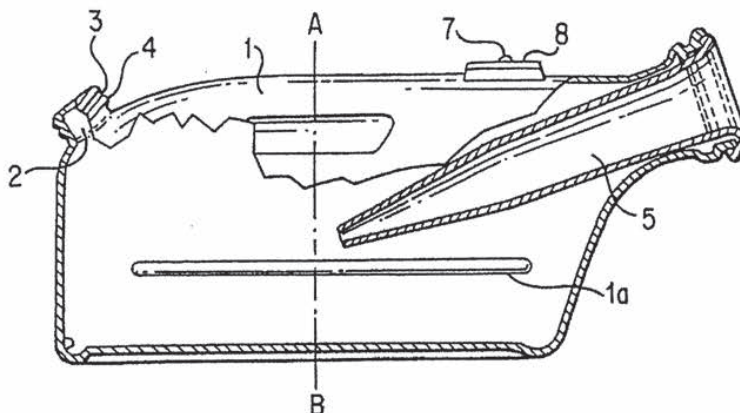
3,565,218	3/1971	Beckman	4/144.
4,114,795	8/1979	Johnson	4/144.
5,711,612	12/1997	Daneshyar	4/144.
5,839,123	11/1998	Dunham, Sr.	4/144.

Primary Examiner—David J. Walczak
Attorney, Agent, or Firm—Michael D. Bednarek; Crowell & Moring LLP

[57] ABSTRACT

A urinal of transparent or translucent plastic material that can endure a sterilization temperature of 130° C., with a detachable anti-backflow element having an interior end located at the volumetric center of the urinal. The urinal also includes a normal fill level indicator, such as a groove in the side of the urinal, and a conduit and cap located above the normal fill level of the urinal. The anti-backflow device, normal fill level, and conduit and cap combine to prevent spillage from the urinal at any angle of tilt so long as the contents of the urinal remain at or below the normal filling level. In addition, emptying of the contents is facilitated by virtue of the conduit and cap location above the normal fill level. The urinal also includes other features, such as an internal odor tablet holding device, unique coloring and phosphorescent features for selected elements of the urinal, a specially designed cradle for holding or hanging the urinal, and either a fixed or attachable handle.

20 Claims, 3 Drawing Sheets



NATIONAL STAGE PROCESSING BRANCH
(DO/EO) FEE SHEET

SERIAL NUMBER

750133

DATE FORWARDED TO FINANCE BRANCH

2/5

☐ Checks Only

☐ Checks and Charges Enclosed

☒ Charges Only Enclosed

☒ Refund Approval Needed

☒ Corrections:

☐ Check

☒ Charge

☐ Check & Charge

FROM: DO/EO NATIONAL STAGE PROCESSING BRANCH

ATTN: Mosley

Name of Person Forwarding File to Finance

PLEASE KEEP THIS SHEET ATTACHED TO THE CASE
FILE AND RETURN TO DO/EO AFTER APPROPRIATE
ACTION IS TAKEN.

CD	MMH	TPE	NAME OR ACCOUNT	C-NBR	MLEDT	CURDT	F-C	#	AMOUNT
C	510	1	08737879	00084	961203	961204	961		510.00
C	510	1	08737879	00084	961203	961204	966		32.00
C	510	1	08737879	00084	961203	961204	969		65.00
C	520	1	110855	52037	961204	961205	969		65.00
C	190	1	08737879	00071	970205	970206	961		520.00
C	120	1	08737879	00071	970205	970206	966		33.00
C	180	1	08737879	00071	970205	970206	966		520.00
C	180	1	08737879	00074	970205	970206	967		33.00

NO MORE TRANSACTIONS

END OF YOUR QUERY

There is Nothing
Wrong With the refund
I ASK FOR

969-65.00 Truck on yellow
which would be \$30.00 under
969 Please Refund what
I ask for - Vonda

ID	MCH	TPE	NAME OR ACCOUNT	C-NBR	MLEDTE	CURDTE	F-C	\$ AMOUNT
C	510	1	08737879	00084	961203	961204	961	520.00
C	510	1	08737879	00084	961203	961204	966	33.00
C	510	1	08737879	00084	961203	961204	969	65.00
D	520	1	110855	52037	961204	961205	969	65.00
C	180	1	08737879	00071	970205	970206	961	520.00-
C	180	1	08737879	00071	970205	970206	966	33.00-
C	180	1	08737879	00071	970205	970206	971	520.00
C	180	1	08737879	00074	970205	970206	967	33.00

ORE TRANSACTIONS

END OF YOUR QUERY

PATENT APPLICATION FEE DETERMINATION RECORD Effective October 1, 1996					Application or Docket Number 08/737879	
CLAIMS AS FILED - PART I						
(Column 1)		(Column 2)				
FOR	NUMBER FILED	NUMBER EXTRA				
BASIC FEE						
TOTAL CLAIMS		21 minus 20 =		1		
INDEPENDENT CLAIMS		1 minus 3 =		*		
MULTIPLE DEPENDENT CLAIM PRESENT						
* If the difference in column 1 is less than zero, enter "0" in column 2.						
CLAIMS AS AMENDED - PART II						
(Column 1)		(Column 2)		(Column 3)		
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA			
	Total	20 Minus	21	=		
	Independent	2 Minus	3	=		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM					
(Column 1)		(Column 2)		(Column 3)		
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA			
	Total	21 Minus	21	=		
	Independent	2 Minus	3	=		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM					
(Column 1)		(Column 2)		(Column 3)		
AMENDMENT C	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA			
	Total	* Minus	**	=		
	Independent	* Minus	***	=		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM					
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20." *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3." The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.						

SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
RATE	FEE		RATE	FEE
	455			
	685.00	OR		770.00
x\$11=	11	OR	x\$22=	
x40=		OR	x80=	
+130=		OR	+260=	
TOTAL	466	OR	TOTAL	

SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
RATE	ADDITIONAL FEE		RATE	ADDITIONAL FEE
x\$11=		OR	x\$22=	
x40=		OR	x80=	
+130=		OR	+260=	
TOTAL ADDIT. FEE		OR	TOTAL ADDIT. FEE	

SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
RATE	ADDITIONAL FEE		RATE	ADDITIONAL FEE
x\$11=		OR	x\$22=	
x40=		OR	x80=	
+130=		OR	+260=	
TOTAL ADDIT. FEE		OR	TOTAL ADDIT. FEE	

PAGE DATA ENTRY CODING SHEET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

APPLICATION NUMBER 08/737879		TYPE APPL ☐		FILING DATE MONTH DAY YEAR 11 22 96		SPECIAL HANDLING ☐		1ST EXAMINER V. NALLACE		DATE 11/23/96	
TOTAL CLAIMS 21		SMALL ENTITY? ☒		FILING FEE 865		FOREIGN LICENSE ☒		2ND EXAMINER 3105		DATE 11/23/96	
INDEPENDENT CLAIMS 1				FILING FEE 865				GROUP ART UNIT 3105		CLASS 1-4	
				FILING FEE 865				ATTORNEY DOCKET NUMBER G040001-4CT		SHEETS OF DRAWING 1	

CONTINUITY DATA

CONT STATUS CODE	CODE	PARENT APPLICATION SERIAL NUMBER	PCT APPLICATION SERIAL NUMBER	PARENT PATENT NUMBER	PARENT FILING DATE MONTH DAY YEAR
			P C T /		
			P C T /		
			P C T /		
			P C T /		
			P C T /		

PCT/FOREIGN APPLICATION DATA

FOREIGN PRIORITY CLAIMED 1	COUNTRY CODE FX	PCT/FOREIGN APPLICATION SERIAL NUMBER 95/03504	FOREIGN FILING DATE MONTH DAY YEAR 03 24 95
--------------------------------------	---------------------------	--	---

MULTIPLE DEPENDENT CLAIM FEE CALCULATION SHEET (FOR USE WITH FORM PTO-875)							SERIAL NO.	FILING DATE
							APPLICANT(S) 08/737819	
CLAIMS								
	AS FILED		AFTER 1st AMENDMENT		AFTER 2nd AMENDMENT			
	IND.	DEP.	IND.	DEP.	IND.	DEP.	IND.	DEP.
1							51	
2							52	
3							53	
4							54	
5							55	
6							56	
7							57	
8							58	
9							59	
10							60	
11							61	
12							62	
13							63	
14							64	
15							65	
16							66	
17							67	
18							68	
19							69	
20							70	
21							71	
22							72	
23							73	
24							74	
25							75	
26							76	
27							77	
28							78	
29							79	
30							80	
31							81	
32							82	
33							83	
34							84	
35							85	
36							86	
37							87	
38							88	
39							89	
40							90	
41							91	
42							92	
43							93	
44							94	
45							95	
46							96	
47							97	
48							98	
49							99	
50							100	
TOTAL IND.							TOTAL IND.	
TOTAL DEP.							TOTAL DEP.	
TOTAL CLAIMS							TOTAL CLAIMS	

PTO-1350 (2-78)

*MAY BE USED FOR ADDITIONAL CLAIMS OR AMENDMENTS

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office