

## UNITED STATES OF COMMERCE Patent and Trademark One

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APPLICATION NUMBER FIRST NAMED APPLICANT ATTORNEY DOCKET NO. FILING DATE 08/487,526 06/07/95 HARVEY 5634,355 EXAMINER 26M1/0213 THOMAS J SCOTT JR LUTHER, W HOWREY & SIMON ART UNIT PAPER NUMBER 1299 PENNSYLVANIA AVENUE NW WASHINGTON DC 20004 2607 DATE MAILED: 02/13/97

This is a communication from the examiner in charge of your application. COMMISSIONER OF PATENTS AND TRADEMARKS

	OFFICE ACTION SUMMARY	
Responsive to communication(s) filed on	12-12-95	·
☐ This action is FINAL.		
Since this application is in condition for all accordance with the practice under Ex par	lowance except for formal matters; prosecution as to	the merits is closed in
whichever is longer, from the mailing date of t	this action is set to expire full this communication. Failure to respond within the per s.S.C. § 133). Extensions of time may be obtained und	iod for response will cause
Disposition of Claims		
(2) Claim(s) 2-20	) 	is/are pending in the application.
Of the above, claim(s)	is/a	re withdrawn from consideration.
Claim(s)		is/are allowed.
☑ Claim(s) 2 - 20		is/are rejected.
☐ Claim(s)	· · · · · · · · · · · · · · · · · · ·	is/are objected to.
☐ Claims	are subject to	restriction or election requirement.
Application Papers		•
See the attached Notice of Draftspersor	n's Patent Drawing Review, PTO-948.	• ,
The drawing(s) filed on	is/are objected to by t	he Examiner.
☐ The proposed drawing correction, filed	on is	approved disapproved.
☐ The specification is objected to by the E		
☐ The oath or declaration is objected to by		
Priority under 35 U.S.C. § 119	<u>.</u>	
• •	foreign priority under 35 U.S.C. § 119(a)-(d).	. •
	ERTIFIED copies of the priority documents have been	
received.		•
	code/Serial Number)	
	ation from the International Bureau (PCT Rule 17.2(a)	
-		·
	domestic priority under 35 U.S.C. § 119(e).	
Attachment(s)		
Notice of Reference Cited, PTO-892	<i>:</i>	
☐ Information Disclosure Statement(s), P	PTO-1449, Paper No(s)	·
☐ Interview Summary, PTO-413		
Notice of Draftsperson's Patent Drawin	ng Review, PTO-948	•
☐ Notice of Informal Patent Application, F		
	OFFICE ACTION ON THE FOLLOWING PAGES -	
PTOL-326 (Rev. 10/95)		* U.S. GPO: 1998-410-2

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This action is in response to the amendment filed December
 12, 1995.

2. This action will not attempt to determine the effective filing date of this application. The action will apply art against the claims using two possible effective filing dates, i.e. serial number 06/317,510, filed November 3, 1981, and serial number 07/096,096, filed September 11, 1987. Applicants can overcome the art rejections by establishing that the art applied does not meet the claimed limitations or that the art does not have an early enough filing date.

The action will make initial double patenting rejections presuming that all of the present claims were fully disclosed in both the '81 and '87 cases.

In any rejections made under 35 USC 112, first paragraph, applicants will be asked to clarify, where required by the examiner, how the present claims are fully disclosed in both the '81 and '87 cases.

3. Applicants are reminded of their duty to maintain a line of patentable demarcation between related applications. It has been noted by the PTO that many of the pending applications have similar claimed subject matter. In the related 327 applications (the serial numbers are included in a list below), it is estimated that there may be between 10,000 and 20,000 claims. Applicants should insure that substantially duplicate claims do not appear in different cases, and should bring to the PTO's

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attention instances where similar claims have been treated inconsistently, i.e. rejected in one case but not in another.

- 4. Applicants are cautioned that their continual use of alternatives in the claims raises questions concerning the exact claim meaning. More importantly, it raises questions whether the disclosure supports every possible embodiment or permutation that can be created by the alternative language.
- 5. The double patenting rejections in this action are based on the premise that all of the present claims were fully disclosed in U.S. Patents 4,694,490; 4,704,725; 4,965,825; and 5,109,414. Since there was a restriction made in 5,233,654, there will be no double patenting made on that patent or 5,335,277.
- 6. The PTO's copies of the parent files are in poor form since they have been copied many time by members of the public. The files also are missing some of the papers. The double patenting rejections below presumes that there were no requirements for restriction made in any of the parent files.
  - 7. There are three types of double patenting rejections:
    - a) Statutory double patenting rejection under 35 USC 101,
    - b) Nonstatutory obvious type double patenting,
- c) Nonstatutory non-obviousness type double patenting.

  In this action, the rejections of the third type that are directed to the claims of the parent patented files will have two different versions. The first rejects the claims because they have not been established to be independent and distinct from the

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patented claims. The second version includes that premise, and further supports the rejection by establishing that representative claims from this application have common subject matter with representative ones of the patented claims.

8. Claims 2-20 (all of the claims in this application) are rejected under the judicially created doctrine of non-obviousness non-statutory double patenting over the patented claims in U.S. Patents 4,694,490; 4,704,725; 4,965,825; and 5,109,414 since the claims, if allowed, would improperly extend the "right to exclude" already granted in those patents.

The subject matter claimed in the instant application is fully disclosed in the patents and is covered by the patents since the patents and the application are claiming common subject matter, as follows: a signal processing apparatus and method including an interactive communications system apparatus and method. Furthermore, there is no apparent reason why applicants were prevented from presenting claims corresponding to those of the instant application during prosecution of the parent applications which matured into patents. In re Schneller, 397 F.2d 350, 158 USPQ 210 (CCPA 1968). See also MPEP § 804.

A review of the claims in each of the four parent patents (5,109,414; 4,964,825; 4,704,725; 4,694,490) was made. These patented claims do not appear "independent and distinct" from the claims in this application. The present claims are directed to a method and apparatus for controlling communications including

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television communications or programming. The claims in patent 5,109,414 were directed to a processing system and method for signal distribution including television. The claims in patent 4,965,825 were directed to a system and process for signal processing including carrier communications. The claims in patent 4,704,725 were directed to a method of communicating data to receiver stations. The claims in patent 4,694,490 were directed to a method for communicating and processing television programs.

Applicants' invention can be envisioned at in three parts. As with most cable TV systems, there is a head end station which generates the video programming. Applicants have included an intermediate station which receives transmissions, from the head end or subscriber stations, and distributes the programming to each subscriber. The subscriber station receives the programming, and can communicate to the intermediate station with requests or instructions. Even if the claims directed to each station were "independent and distinct" from the claims directed to the other stations, there would be no reason to "restrict" between the three stations since their overall function is so interrelated that the stations have the same search area, i.e the PTO could not establish a burden if required to search for all three stations.

It is believed that CCPA in Schneller used the "independent and distinct" standard as the main factor in its determination

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that the double patenting rejection should be affirmed. The CCPA stated that the fundamental reason supporting the principle of non-statutory double patenting rejections is to prevent unjustified timewise extension of the right to exclude granted by a patent no matter how the extension is brought about. Further the CCPA stated at 158 USPQ 210 (214):

"... To conform to this reason and to prevail here, appellant has the burden of establishing that the invention in his patent is "independent and distinct" from the invention of the appealed claims. The public policy considerations underlying 35 U.S.C. 121 permit separate patents on "independent and distinct" inventions which are initially "claimed in one application." The statute places initial responsibility for this determination on the Commissioner of Patents. Where, as here, no such determination has been made, it is necessary to scrutinize carefully an applicant's voluntary alleged determination of this issue for it can lead to the improper proliferation of patents on the same invention with the inherent result of extending timewise a patentee's right to exclude others from the invention disclosed in the original application and on which his patent has issued."

The CCPA further stated at page 215 the length of time between an earlier patent and a later filed application should be considered. The filing date of this application was over seven years after the first patent issued (serial number 06/317,510, filed November 3, 1981, patented as 4,694,490 on September 15, 1987) and over four years after the first CIP issued as a patent (serial number 07/096,096, filed September 11, 1987, patented as 4,965,825 on October 23, 1990).

To the extent that one would view Schneller and In re
Kaplan, 789 F.2d 1574, 229 USPQ 678 (Fed. Cir. 1986) to be in
conflict, it is clear that Schneller is the controlling precedent

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to the factual situation here. In Schneller, the Court specifically distinguished a situation of the same applicant from one where the application and patent had different inventive In Kaplan, the inventive entities between the patent entities. and application were different, as was required at the time of the Kaplan invention, since Kaplan's filing date was before the Patent Law Amendments Act of 1984. In this present case, as with Schneller, the inventive entities of the application and patent Clearly, Kaplan was required, or entitled, to file are the same. separate applications, whereas applicants and Schneller did not have reason to do so. Finally, decisions of a three-judge panel of the Federal Circuit cannot overturn prior precedential decisions of the CCPA. See UMC Elec. Co. v. United States 2 USP02d 1465.

9. Claims 2-20 (all of the claims in this application) are rejected under the judicially created doctrine of non-obviousness non-statutory double patenting over the patented claims in U.S. Patents 4,694,490; 4,704,725; 4,965,825; and 5,109,414 since the claims, if allowed, would improperly extend the "right to exclude" already granted in those patents.

This rejection incorporates the rejection above. That double patenting rejection is further supported by Schneller because the great majority of the patented claims are

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"comprising" type claims. While it is recognized that the specific claim limitations in the application may not have been claimed in the patents, that alone does not establish grounds for overcoming this rejection. The patent claims were directed to parts of applicants' total disclosed system or process.

Therefore the recitation of "comprising" enables those patented claims to "cover" claim features now recited by applicants' present application claims.

Since the head end, intermediate, and subscriber stations are part of the overall system, claims to one part "cover" the other part(s) under the Schneller decision (page 215), since the preferred embodiment would include all three parts of the main system, i.e. head, intermediate, and subscriber stations. For example, claims to the subscriber station still cover the intermediate station because the subscriber station would be processing information that had to come from the intermediate station. A second example would be that claims to one aspect or function of the intermediate station would cover the invention of another aspect or function of the intermediate station since both functions could be performed with the other. Applicants' disclosed system includes similar features in the head, intermediate, and subscriber stations. For example, the stations

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<sup>&</sup>lt;sup>1</sup>The claims that recite neither "comprising" nor "consisting" are considered to recite open claim language, i.e. equivalent to "comprising". See, for example, claim 1 of Patent 5,109,414.

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can transmit and receive, and have computer, processor and controller capabilities. For that reason, the disclosure will permit broadly drafted claims to read on either the head, intermediate, or subscriber station. Patent claims that recite receiving and transmitting can cover both intermediate and subscriber stations. The fact that patent claims and application claims are directed to different elements does not prohibit this rejection if there is common or interrelated subject matter recited. The Court in Schneller stated at page 215:

"... They "cover" the preferred form ABCXY, common to the patent and this application, in the same sense. The fact that X and Y are distinct elements, performing, independent functions, so that either can be employed without the other, does not change this fact. Neither does appellant's omission of reference to the lip Y from his patent claims."

Application claim 18 is a representative claim. It is directed to a method of controlling transmitter stations to communicate data to receiver stations by receiving an instruct signal, delivering the instruct signal to the transmitter, the instruct signal being effective to coordinate a programming presentation based on a subscriber input, receiving control signals, and transmitting the control signals.

A review of representative ones of the patented claims will demonstrate that the patented claims cover the invention claimed in this application:

a) In patent 4,694,490, claim 7 is representative of the claimed method for communicating TV program information to a receiver station. The receiver station receives the video

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data, displays it, detects the presence of overlay information using an instruct signal, and has computers generate and transmit this overlay info to the display.

- b) In patent 4,704,725, claim 3 is representative, and, as summarized below, recites a method of communicating data comprising:
  - a) multiple receivers, each with a computer,
  - b) transmitting instruct to transmit signals to the computers,
  - c) detecting the signals and coupling them to the selected computers,
  - d) having the computers control their own selected output device.
- c) In patent 4,965,825, claim 24 is representative, and, as summarized below, recites generating a computer output having the steps of:
  - a) having multiple receivers, each with a computer,
  - b) transmitting an instruct to generate signal to the computers,
  - c) causing the computers to generate individual user output information.
- d) In patent 5,109,414, claim 15 is representative, and, as summarized below, recites a signal processing system (including):
  - a) receiver/distribution means,
  - b) switch means,
  - c) control signal detector means for transferring data to storage means,
  - d) storage means for storing and transferring data to processor means,
  - e) processor means for controlling.

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While claim 15 is an apparatus claim, a method claim and apparatus claim do not in themselves establish groups that are "independent and distinct".

The patented claims are also primarily directed to methods or structure to control element(s) either directly at that station or at another remote station. This control is generally completed with the reception or recognition of an instruct signal. The same common concept exists in application claim 18. All of the claims, both patented and pending in this application, when considered together, effectively recite parts of the preferred embodiment, i.e. a head, intermediate, and subscriber station. The patented claims "cover" the claims of the application because the patented limitations do not exclude the limitations of this application.

In the arguments above, the examiner, when discussing several of the patents, stated that the patented claims were broad enough to read on multiple stations. While it is believed this analysis is correct, it is not critical to this rejection. Since the patented claims recite limitations that are interrelated with other similar features claimed in this application, it is the examiner's position that those patented claims "cover" the application claims because all of these claimed features (both in the patent and application) describe what is effectively the preferred embodiment.

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The claims in this application, if allowed without a terminal disclaimer, would continue patent protection of the preferred embodiment, i.e. the complete system of the head, intermediate, and subscriber stations, beyond the expiration of applicants' parent patents.

- 10. A determination of a possible non-statutory double patenting rejection obvious-type in each of the related 327 applications over each other will be deferred until a later time. This action is taken if view of the possibility that many of these applications may be abandoned or merged.
- 11. Claims 2-20 are rejected under the judicially created doctrine of double patenting over the claims of copending U.S. application 08/113,329 and the following related U.S. applications (all of the application are series 08):

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#	Ser. No.	#	Ser. No.	#	ser. No.
1	397371	2	397582	3	397636
4	435757	5	435758	6	437044
7	437045	8	437629	9	437635
10	437791	11	437819	12	437864
13	437887	14	437937	15	438011
16	438206	17	438216	18	438659
19	439668	20	439670	21	440657
22	440837	23	441027	24	441033
25	441575	26	441577	27	441701
28	441749	29	441821	30	441880
31	441942	32	441996	33	442165
34	442327	35	442335	36	442369
37	442383	38	442505	39	442507
40	444643	41	444756	42	444757
43	444758	44	444781	45	444786
46	444787	47	444788	48	444887
49	445045	50	445054	51	445290
52	445294	53	445296	54	445328
55	446123	56	446124	57	446429
58	446430	59	446431	60	446432
61	446494	62	446553	63	446579
64	447380	65	447414	66	447415
67	447416	68	447446	69	447447
70	447448	71	447449	72	447496
73	447502	74	447529	75	447611
76	447621	77	447679	78	447711
79	447712	80	447724	81	447726
82	447826	83	447908	84	447938
85	447974	86	447977	87	448099
88	448116	89	448141	90	448143
91	448175	92	448251	93	448309
94	448326	95	448643	96	448644
97	448662	98	448667	99	448794
100	448810	101	448833	102	448915
103	448916	104	448917	105	448976
106	448977	107	448978	108	448979
109	449097	110	449110	111	449248
112	449263	113	449281	114	449291

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#	Ser. No.	#	Ser. No.	#	Ser. No.
115	449302	116	449351	117	449369
118	449411	119	449413	120	449523
121	449530	122	449531	123	449532
124	449652	125	449697	126	449702
127	449717	128	449718	129	449798
130	449800	131	449829	132	449867
133	449901	134	450608	135	451203
136	451377	137	451496	138	451746
139	452395	140	458566	141	458699
142	458760	143	459216	144	459217
145	458218	146	459506	147	459507
148	459521	149	459522	150	459788
151	460043	152	460081	153	460085
154	460120	155	460187	156	460240
157	460256	158	460274	159	460387
160	460394	161	460401	162	460556
163	460557	164	460591	165	460592
166	460634	167	460642	168	460668
169	460677	170	460711	171	460713
172	460743	173	460765	174	460766
175	460770	176	460793	177	460817
178	466887	179	466888	180	466890
181	466894	182	467045	183	467904
184	468044	185	468323	186	468324
187	468641	188	468736	189	468994
190	469056	191	469059	192	469078
193	469103	194	469106	195	469107
196	469108	197	469109	198	469355
199	469496	200	469517	201	469612
202	469623	203	469624	204	469626
205	470051	206	470052	207	470053
208	470054	209	470236	210	470447
211	470448	212	470476	213	470570
214	470571	215	471024	216	471191
217	471238	218	471239	219	471240
220	472066	221	472399	222	472462
223	472980	224	473213	225	473224
226	473484	227	473927	228	473996

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#	Ser. No.	#	Ser. No.	#	Ser. No.
229	473997	230	473998	231	473999
232	474119	233	474139	234	474145
235	474146	236	474147	237	474496
238	474674	239	474963	240	474964
241	475341	242	475342	243	477547
244	477564	245	477570	246	477660
247	477711	248	477712	249	477805
250	477955	251	478044	252	478107
253	478544	254	478633	255	478767
256	478794	257	478858	258	478864
259	478908	260	479042	261	479215
262	479216	263	479217	264	479374
265	479375	266	479414	267	479523
268	479524	269	479667	270	480059
271	480060	272	480383	273	480392
274	480740	275	481074	276	482573
277	482574	278	482857	279	483054
280	483169	281	483174	282	483269
283	483980	284	484275	285	484276
286	484858	287	484865	288	485282
289	485283	290	485507	291	485775
292	486258	293	486259	294	486265
295	486266	296	486297	297	487155
298	487397	299	487408	300	487410
301	487411	302	487428	303	487506
304	487516	305	****	306	487536
307	487546	308	487556	309	487565
310	487649	311	487851	312	487895
313	487980	314	487981	315	487982
316	487984	317	488032	318	488058
319	488378	320	488383	321	488436
322	488438	323	488439	324	488619
325	488620	326	498002	327	511491

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The subject matter claimed in the instant application is fully disclosed in the referenced copending applications and would be covered by any patent granted on that copending applications since the referenced copending applications and the instant application are claiming common subject matter, as follows: a signal processing apparatus and method including an

interactive communications system apparatus and method.

Furthermore, there is no apparent reason why applicant would be prevented from presenting claims corresponding to those of the instant application in the other copending applications. *In re Schneller*, 397 F.2d 350, 158 USPQ 210 (CCPA 1968). See also MPEP § 804.

A review of the claims in the related copending applications was made. These claims do not appear independent and distinct from the claims in this application. It is believed that CCPA in Schneller used the "independent and distinct" standard as the main factor in its determination that the double patenting rejection should be affirmed. The relevant arguments in the preceding paragraphs in support of this position are incorporated herein.

12. It is acknowledged that a multiplicity rejection was mailed on July 27, 1989 in parent file 07/096,096. In this rejection, the examiner had limited the applicants to 25 claims.

Schneller did not equate a multiplicity rejection with a restriction requirement as a permissible exception to being

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subject to the non-obvious non--statutory double patenting rejection. For that reason, this action will not overturn the legal reasoning in *Schneller* which supports the non-statutory non-obviousness double patenting rejection above.

It is believed, however, that applicants arguments on this multiplicity issue can be better supported if a nexis is established between the claims of this application and those that were canceled in 07/096,096 in response to the multiplicity requirement.

Notwithstanding the comment above, at the time the examiner made the multiplicity rejection, there was a body of case law that had overturned similar rejections. Note In re Flint 162 USPQ 228 (CCPA 1969) and In re Wakefield, 164 USPQ 636 (CCPA 1970).

13. The non-statutory double patenting rejection, whether of the obvious-type or non-obvious-type, is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent. In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); In re Van Ornam, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); and In re Goodman, 29 USPQ2d 2010 (Fed. Cir. 1993).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321 (b) and (c) may be used to overcome an actual or provisional rejection based on a non-statutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.78 (d).

Effective January 1, 1994, a registered attorney or agent of record may sign a Terminal Disclaimer. A Terminal Disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

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subject to the non-obvious non--statutory double patenting rejection. For that reason, this action will not overturn the legal reasoning in *Schneller* which supports the non-statutory non-obviousness double patenting rejection above.

It is believed, however, that applicants arguments on this multiplicity issue can be better supported if a nexis is established between the claims of this application and those that were canceled in 07/096,096 in response to the multiplicity requirement.

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13. The non-statutory double patenting rejection, whether of the obvious-type or non-obvious-type, is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent. In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); In re Van Ornam, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); and In re Goodman, 29 USPQ2d 2010 (Fed. Cir. 1993).

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Effective January 1, 1994, a registered attorney or agent of record may sign a Terminal Disclaimer. A Terminal Disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

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14. Claims 2-20 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 applicants regards as the invention.

The examiner must be able to determine the meets and bounds of the claims to perform an effective search and analysis over the art. The examiner is not certain that the meets and bounds of these claims can be determined because of the language in the disclosure and claims. For example, the disclosure teaches many transmitter and receiver stations, instruct signals, control signals, decoders, etc. (This is just a partial list of terms in applicants' disclosure that apply to plural elements in that disclosure.) When these phrases are claimed, the examiner needs to know "which" element in the disclosure is performing the claimed step. For example, when a hypothetical claim recites "transmitter station", and the disclosure teaches different ones (those in the origination, intermediate, and subscriber stations), the examiner needs to be able to envision what applicants could be claiming.

Applicants' assigned multiple meanings to words in a claim makes a claim indefinite.

Traditionally, examiners "diagram" claims to determine the meets and bounds. To explain what "diagraming" means, the examiner attempts to draw a picture (generally a circuit or a connection of block elements in an electrical application) which

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represents what was claimed so that the examiner can visualize how a mythical reference could anticipate the claim, if the claim was given its broadest reading. If the claim recites terms or phrases that have multiple meanings in the disclosure, the examiner can't determine whether the diagram of the claim is correct. Given that, how can the examiner determine whether the art, that could anticipate the broadest reading of the claim, was searched for?

Admittedly, the size of applicants' disclosure with its numerous possible implementations is contributing to the problem, but the problem does exist. Applicants are being requested to reference the claim limitations in this application to the disclosure so that the meets and bounds of these claims can be properly considered. This can be done in a remarks section, the claims do not have to be amended.

15. Claims 2-8 are rejected under 35 U.S.C. § 112, first and second paragraphs, as the claimed invention is not described in such full, clear, concise and exact terms as to enable any person skilled in the art to make and use the same, and/or for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The '87 case did not disclose the terms "promoting". What does it mean as used in the claims? And why would this usage not be new matter?

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16. The specification is objected to under 35 U.S.C. § 112, first paragraph, as failing to provide an enabling disclosure.

The following common phrases were not disclosed in the '87 case. It is questioned where, in the '87 disclosure, is there support for an operational embodiment using the established meaning of these terms:

react, reaction, or instruct-to-react.

- 17. Claims 7 and 9-12 are rejected under 35 U.S.C. § 112, first paragraph, for the reasons set forth in the objection to the specification.
- 18. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter noted above. See 37 C.F.R. § 1.75(d)(1) and M.P.E.P. § 608.01(1).
- 19. The following common phrases were not disclosed in the '81 case. It is questioned where, in the '81 disclosure, is there support for an operational embodiment using the established meaning of these terms:

product (claim 2)
coordinate or instruct-to-coordinate (claims 2,6,7).

20. Claims 2-20 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.

Considering claim 2, applicant does not provide proper antecedent reference for: "communicating information" (line 4);

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"a signal" (line 18); "said received signal" (line 19); "a signal" (line 19); "an output device" (line 33); "said separate

Considering claim 6, applicant does not provide proper antecedent reference for: "some programming" (line 4).

locations" (lines 33-34); "some multimedia output" (line 36).

Considering claim 7, applicant does not provide proper antecedent reference for: "some programming" (line 4).

Considering claim 8, applicant does not provide proper antecedent reference for: "some information" (line 3); "a remote station" (line 3).

Considering claim 9, applicant does not provide proper antecedent reference for: "a subscriber station" (line 4); "an instruct signal" (line 9); "a subscriber input" (line 10); "one or more remote data collection stations" (lines 12-13); "said instruct signal" (line 13).

Considering claim 10, applicant does not provide proper antecedent reference for: "said instruct signal" (line 1); "a subscriber" (lines 1-2); "a subscriber instruction" (line 3); "one or more specific mass medium programs" (lines 3-4 and line 5); "said instruction" (line 6).

Considering claim 11, applicant does not provide proper antecedent reference for: "said instruct signal" (line 1); "a subscriber" (lines 1-2); "a subscriber instruction" (line 3); "one or more mass medium programs" (lines 3-4 and line 5); "said instruction" (line 6).

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Considering claim 12, applicant does not provide proper antecedent reference for: "said information that designates a specific subscriber input" (lines 1-2); "said instruction signal" (line 2); "an information transmission" (line 2); "a processor" (line 4); "information communicated..source" (lines 4-5); "an information...source" (line 6); "an instruct signal" (line 9); "data" (line 9).

Considering claim 13, applicant does not provide proper antecedent reference for: " a transmitter" (line 7); "said instruct signals" (line 9); "the remote receive station" (line 9); "one or more instruct signals" (line 12); "said transmitter" (line 12); "said remote transmitter station" (line 13); "said one or more instruct signals" (lines 14-15); "said transmitter station" (line 15); "said receiver station" (line 15); "said remote transmitter station" (line 17); "one or more instruct signals" (line 18).

Considering claim 14, applicant does not provide proper antecedent reference for: "said one or more control signals" (line 2); "said remote transmitter station" (line 3).

Considering claim 18, applicant does not provide proper antecedent reference for: "a receiver station" (line 4); "a unit of data" (line 6); "a controller or computer" (line 7); "one or more instruct signals" (line 11); "an instruct signal" (line 13); "said instruct signal" (line 14); "a transmitter" (line 14); "said instruct signal" (lines 14-15); "a receive station" (line

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15); "one or more control signals" (line 17); "said instruct signal" (line 18).

Considering claim 19, applicant does not provide proper antecedent reference for: "said instruct signal" (lines 2, 3, and 3-4). Further, applicant is vague and indefinite for recitation of embedding. What is meant by embedding, interspersal? multiplexing?

Considering claim 20, applicant does not provide proper antecedent reference for: "said instruct signal (lines 2, and 2-3). Further, applicant's alternative 'or' language is vague and indefinite. For example, are the intended limitations to mean that the specific time is a 'scheduled time' or 'some information...transmitter station' or 'one or more controlled signal...control one' or 'more of ...times'? Does the first or applicant to a any combination of subsequently grouped 'or's'? Are the 'or's' grouped properly here?

In general applicant is vague and indefinite for not clearly reciting which portion of the system performs each recited step.

Applicant is asked to review all claimed subject matter for complete and proper antecedent language justification, and further to amend any instance where complete and proper antecedent language justification is found lacking.

Note: "a" is used to introduce an element or step; "the" is used to refer, either to a previously introduced element, or to an expected feature of a previously introduced element/step, or

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as a definite function of a word e.g. <u>the</u> third in line, <u>the</u> right answer; finally, both words "each" and "said" are used to refer directly to a previously introduced element/step. Finally "the", "each", and "said" can be presented in abbreviated form as long as there is no conflict with other named elements/steps.

- 21. Rejections are made with Examiner's best understanding of scope of claims. Any amendment to overcome rejection under 35 USC 112 that changes Examiner's understanding of claim scope may necessitate citation of new art. Additionally, throughout applicant's claimed subject matter, there seem to be repeated recitations of the same step and in some method recitations, there seems to be no particular order (time sequential such that for a previous step to occur, the currently recited step would already have had to occur in order to make the previous step possible.
- 22. Claim 2, 4-12, and 18-20 are rejected under 35 U.S.C. § 103 as being unpatentable over Campbell et al (U.S. patent no. 4,536,791).

Considering claim 2, Campbell et al suggest: communicating information at a multimedia receiver station (addressable converter, item 40 Figure 1); the receiver station (addressable converter) containing one or more receivers (item 40 is suggested by Campbell et al Figure 6 wherein item 100 receives multimedia signalling); a computer connected to the receiver for processing

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and communication information (Campbell et al Figure 7 shows dissection of Figure 6 item 104 in which computer 410 of Figure 7 receives video and graphics from Figure 6 item 100); a plurality of output devices (Figure 7 shows the process of channeling information to graphics output circuitry and also to video output circuitry); inputting a subscribers command (Figure 12 item 334 inputs key word) is suggested by Campbell et al when subscribers desire to watch special events, higher tiers, or any unauthorized programming; controlling the receiver station to receive a signal (Fig 11 item 200) in response to the key word entry (subscriber command) the signal (Fig 11 item 200) comprising a signal (same or different??- either Fig 11 item 200 or Fig 11 item 206 depending on whether 'a signal' is meant to be same or different than previous recitation) which permits operation of the receiver station in a designated media operation (Campbell et al suggests that the threshold code be entered by the user, col 14 line 18, which effects signal 200 to comprise a corresponding 206 permitting operation or the receiver station to allow previously ineligible programming); detecting the presence of two or more instruct-to-coordinate signals (a first signal suggested by Campbell et al is channel control word signal 200 of Figure 11, the second signal is the event enable word signal 220) at the receiver station; each instruct-to-coordinate signal designating: channel control word designates (1) -a portion of multimedia programming signal to receive by designating tier code (Figure

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11, item 200 with item 202) and event enable word signal 200 designates (2)- a portion of a multimedia programming signal to communicate to a memory location wherein items 222, 224, 226, 228 are stored in item 104 (see col 13 line 61 thru col 14 line 8); communicating one or more units of multimedia programming in response to the two-or more instruct-to-coordinate signals (Campbell et al suggest that after special event codes are stored in item 104 in response to entry of keyword an activation of channel number 226, that the special program be output to the requesting subscriber).

What Campbell et al does not specifically suggest is television programming displays that promotes a multi-media product or service. However it would have been obvious to one having ordinary skill in the art of digital communication to promote special events available on non-authorized channels so that subscribers would become aware of any event of interest and then order that event, ie advertise for the well known purposes of increasing viewership and therefore revenue (both from the subscriber, and if advertising is permitted on those channels then from other advertisers).

Considering claim 4, Campbell et al suggest Fig 11 item 216 wherein the receiving station is programmed to allow viewing of some channels but not others (other control words such as address are considered associated identification datum).

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Considering claim 5, Campbell et al suggest processing received programming based on a predetermined fashion by comparing a requested channel to an authorized channel and then making a decision whether to switch to graphics display and key word entry prompt or to allow viewing of the selected program and channeling video signal to video descrambler (see associated Fig 12 item 334 and Figure 7 item 101).

Considering claim 6, Campbell et al suggest processing subscriber command (entered key word-see Fig 12 item 334) based on said one or more instruct-to-coordinate signals (the one instruct-to-coordinate signal associated with entered key word signal 200 having the effect on signal 206- see Figure 11).

Considering claim 7, Campbell et al suggest processing viewer's reaction (to a prompt for key word entry) based on one of said one or more instruct-to-coordinate signals (the 206 instruct to deny eligibility to some requested programs) and outputting some programming to a second output device (the video/audio output associated with the descrambling path 101 of Figure 7) based on inputting and processing (of either the key word, or a change in eligibility threshold).

Considering claim 8; Campbell et al suggest processing the subscriber command (key word item 334 Figure 12), and communicating information based on the step of entering the key word to the remote station based on inputting and processing (the

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hub end remote station monitors those viewed channels via twoway-interactive cabling (col 3 line 24).

Considering claim 9, Campbell et al suggest two-way-cable communication specifically from subscriber to remote data collection stations which include: inputting viewers reaction at a subscriber station (prompt for key word entry item 334 Figure 12); receiving at a subscriber station information that designates an instruct signal to process or output to deliver in consequence of specific subscriber input (specific subscriber inputs of eligibility threshold setting or keyword entry allows deliverance of a previously in-eligible program to be outputted to the subscriber; determining the presence of specific subscriber input at the subscriber station by processing sand viewers or participants reaction (matching entered key word to predetermined key word by processing entered keyword); processing an instruct signal (word 230 Figure 11) effective to coordinate multimedia programming presentation based on the subscriber input (key word or newly entered eligibility threshold) at the subscriber station in consequence to the step of determining; transferring from the subscriber station to one or more remote data collection stations an indicia confirming delivery of the instruct signal (word 230 Figure 11) from the step of processing or conforming delivery of the same from the step of processing (the system monitors viewed programs, col 3 line 24 for purposes which include billing, statistic gathering, etc...).

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Considering claim 10, storing subscriber instruction to receive one or specific mass medium programs, data, news items, or computer control instructions (the hub end stores tier code item 202 Figure 11, eligibility threshold code item 238 Figure 11, etc... based on subscriber authorization); and receiving one or more specific mass medium programs, data, news items, or computer contorts instruction in accordance with the instructions (col 16 lines 47-59 are suggested programs available based on tier code item 202 Figure 11, eligibility threshold code item 238 Figure 11, etc...).

Considering claim 11, Campbell et al suggests: the instruct signal (eligibility threshold code) input by the subscriber (col 14 line 18) storing subscriber instruction (event enable word is stored in item 104 see col 13 lines 61 thru col 14 line 8) to process or present one or more mass medium programs; processing or presenting one or more specific mass medium programs with the instruction (when the special event is broadcast then the special event is made available via video descrambling circuitry -Figure 7 item 101).

Considering claim 12, Campbell et al suggest that the information with designates a specific subscriber input or said instruct signal (eligibility threshold code) is detected in an information transmission from a data or programming source. processor suggested by Campbell et al is inherently programmed to respond to data from the programming source hub end transmitter.

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The programs are received. The detector 100 of Figure 6 does detect programming and control signalling wherein both data and control signaling and instruct signalling are passed to item 104 of Figure 6.

Considering claim 18, Campbell et al suggest controlling the remote intermediate data transmitter station to communicate data to one or more receiver stations, with the remote transmitter station including a broadcast or cablecast transmitter/for transmitting one or more signals which are effective at a receiver station to instruct a computer or processor) (Campbell et al abstract and Figure 7 processor 410; particularly not that the user of the receiving station enters an eligibility threshold code col 14 line 18 which is effective to allow viewing of preauthorized programming and hence instruct processor 104 of Figure 6 to control the programming reception); a plurality of selective transmission devices (video device circuitry Figure 7 item 101 or graphics device circuitry Figure 7 item 124); a data receiver (Figure 6); control signal detector (item 104 or internal circuitry of item 104 depicted in Figure 7); controller or computer (item 410 of Figure 7) for detecting the control signalling (depicted in Figure 11) for controlling program output based on the eligibility code 206; for step (1) receiving instruct signaling item 238 must be received by the transmitter station in order to be transmitted back to the receiver station as illustrated by Figure 11 (see discussion of eligibility code

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threshold authorization in col 14 line 18); for step (2) control signals are inherently used to communicate the eligibility threshold code. While Campbell et al do not explicitly teach transmission before a specific time. A specific time is merely considered the time the control signals are transmitted and therefore would have been obvious in view of Campbell et al suggestions.

Considering claim 19, Campbell et al suggest embedding specific one of said one or more control signals within the information transmission between the transmitter station and the receiver station.

Considering claim 20, Campbell et al suggests the first 'or' grouping that the specific time is a scheduled time as programming suggested by Campbell et al is scheduled.

23. Claims 13-16 are rejected under 35 U.S.C. § 103 as being unpatentable over Campbell et al (U.S. patent no.4,536,791) in

view of Lambert (U.S patent no. 4,381,522).

Considering claim 13, Campbell et al suggest: communication between a transmitter station and a receiver station (abstract); including delivery of media to the receiver station from the transmitter station via a transmitter (it is inherent to the process or receiving programs at the receiver station for the programs to be delivered to a transmitter for transmitting to that receiver station); the transmitter station receives signaling of a eligibility threshold code from the receiver

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station (col 14 line 18; note Figure 11 shows signalling in the direction of the transmitter station to receiver station including item 238 necessitating that the eligibility threshold was first communicated in the direction of the receiver station to the transmitter station after authorization of a certain eligibility threshold code is given prior to subsequent Figure 11 depiction of the threshold being transmitted back to the receiver station as item 238); the eligibility threshold code or the eligibility code item 206 or item 200 channel control word (considered instruct signalling) operates at the receiver station to coordinate which programs will be viewed upon request based on tier etc....; Campbell et al, per discussion above, do communicate at least one signal of eligibility threshold code in order for it to be transmitted back as item 238. What Campbell et al does not explicitly teach the control signals for controlling communication of the programming. However, Lambert suggests a two-way cable system for transmitting programs at a users request for convenience wherein control words thus control the communication. It would have been obvious to one having ordinary skill to implement on demand programming for the benefit of meeting the users personal schedule.

Considering claim 14, embedding one or more control signals in the unit of programming before transmitting the unit to the remote transmitter stations is inherent to Campbell et al suggestions.

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Considering claim 15, Campbell et al suggest that the unit

of programming comprises audio or text, or video.

Considering claim 16, the unit of programming is suggested to be a television program by Campbell et al.

24. Claim 3 is rejected under 35 U.S.C. § 103 as being unpatentable over Campbell et al (U.S. patent no. 4,381,522) as applied to claim 2 above, and further in view of Nagel (U.S. patent no. 4,064,490).

Considering claim 3, Campbell et al suggest claimed subject matter including the display of stock market quotations, news stores, stock quotations etc... (col 16 lines 48-56) but does not suggest programming the receiver for portfolio. However, Nagel suggests a receiving station computer for real-time stock portfolio analysis (col 12 line 42). It would have been obvious to one having ordinary skill to combine portfolio analysis suggestions of Nagel with the stock retrieval system and associated news items for the benefit of a providing the subscriber a more informed body of information for which to make portfolio adjustments for more secure investing.

25. Claim 17 is rejected under 35 U.S.C. § 103 as being unpatentable over Campbell et al (U.S. patent no. 4,381,522) as applied to claim 13 above, and further in view of Nagel (U.S. patent no. 4,064,490).

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Considering claim 17, Campbell et al suggest claim recitation with the exception of downloadable executable code. However, Nagel suggest downloadable executable code in a receiver micro-processing teletext environment. It would have been obvious to one having ordinary skill to combine Campbell et al and Nagel for the benefit of providing more user functionality at the subscriber unit for performing various tasks such as stock portfolio analysis.

26. A series of interviews were held before prosecution began on this application. Unless identified specifically below in this part of the action, these interviews did not address the merits of any single application, but rather issues that are appropriate to all of the related "Harvey" applications.

The first interview was held on August 13, 1995. It was a personal interview. Attending were one of the applicants, Mr. Harvey, and his attorneys, Messrs. Scott and Woolston. Representing the PTO were Messrs. Godici, Yusko, Orsino, and Groody. Mr. Harvey and his attorneys were informed that because of the large number of related applications, the examination would be performed by a team of examiners. As of the August 1995 interview there existed a problem with some of the applications being charged large entity fees when applicants believed that small entity status was deserved. The PTO has referred this matter to the Office of Assistant Commissioner of Patents,

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specifically Hiram Bernstein, a petitions attorney. Mr. Harvey's representatives will attempt to resolve this issue through Mr. Bernstein. At this time all of the related cases had not been received in the Group. No examination was planned until at least late October because the team members were managers, and needed to complete other end of fiscal year assignments and all employee performance ratings. The PTO requested that any amendments to the specification, other that to correct continuing status, be delayed. Mr. Harvey's representatives stated that no other amendments to the specification were actually planned. The PTO's goal will be to attempt to reduce the amount of paper passed between applicant and PTO since the cases are related and very difficult to move from cite to cite because of their size. Copies of the prior art only need to be filed once. The PTO will only send newly cited art once. Preliminary amendments are being The PTO however cautioned that the prosecution of the applications will not be delayed until applicants have filed these amendments. The PTO requested a chart establishing any relationships between cases and what parts of applicants' disclosure related blocks of cases were directed to. It was not. at this time, determined whether this chart would become part of the official file. The PTO planned to research this. PTO's intent to examine related cases simultaneously. welcomed any claim amendments to include resubmissions of all claims, whether amended or not. Mr. Harvey's representatives

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were informed that the issue of double patenting was expected to be a major issue.

On November 2, 1995, a telephonic interview was held between Mr. Woolston and Mr. Groody. Mr. Woolston indicated that two prior art statements were being completed, one for cases with a 1987 effective date, the other for cases with a 1981 effective date.

On November 30, 1995, a personal interview was held.

Representing applicants were Messrs. Scott, Woolston, and

Grabarek. Representing the PTO were Messrs. Yusko, Orsino, and

Groody. The content of a simultaneously filed prior art

statement was discussed. The PTO's copies of the parent files

are missing the non-U.S. patents cited therein. The PTO

requested copies of those prior art documents. Applicants gave

the PTO a document showing which cases have already been amended.

Since this document merely shows the status of any amended

application, it has not been made part of the file record since

that paper has no bearing on the merits of any issue before the

PTO.

A second interview was held on later on November 30, 1995 between Mr. Scott and Mr. Groody. The sole topic discussed was double patenting. The discussion led to no conclusions on whether a double patenting rejections would be made in these applications.

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An interview was held on December 6, 1995 between Mr. Scott and Mr. Groody. The discussion was directed to In re Schneller, 158 USPQ 210 (CCPA) and whether that decision will necessitate a double patenting rejection in any of these cases. Mr Scott was asked whether a terminal disclaimer could be filed in all of the 327 related cases to obviate a possible double patenting rejection in each of these cases over each other. Mr. Scott agreed to consider this.

An interview was held on December 13, 1995 between Mr. Scott and Mr. Groody regarding the terminal disclaimer question above. Mr. Scott proposed filing a terminal disclaimer in about 250 of the 327 cases over each other if the PTO would have each of the about 250 issue within 4 or 6 months of each other. Groody felt that the PTO would be unwilling to suspend prosecution in some cases just to have other related cases issue close to each other. No agreement was reached.

Two interviews were held between Mr. Scott and Mr. Groody on April 2, 1996. Mr. Scott pointed out that, in parent file 5,233,654, there had been a restriction requirement. reviewing the file, Mr Groody indicated that there would not be a Schneller double patenting rejection made in any case based on parent patent 5,233,654 and 5,335,277. The action recently sent out in 08/113,329 would be changed to reflect this point. Mr. Scott inquired whether a terminal disclaimer, in these applications, would have to be filed for all of the four Harvey

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patents (4,694,490; 4,704,725; 4,965,825; 5,109,414). Mr. Groody felt that all four should be disclaimed, if applicants elect to take that approach toward overcoming the double patenting rejections, because of the requirement in terminal disclaimers concerning common ownership. Mr. Scott indicated that in parent patent 4,965,825, there had been a multiplicity rejection. Mr. Groody will order the file, but felt that rejection would not overcome the Schneller double patenting rejections since the CCPA did not list this situation as an acceptable reason to file continuing cases. The Court limited it exception to "independent and distinct" claims. Mr. Groody acknowledged that the Board of Appeals may accept the multiplicity argument, but, in the absence of case law on this issue, he would still apply the Schneller rejections.

On June 10, 1996, Mr Scott spoke with Mr. Groody on several topics. Related case 08/397,582 has been withdrawn from issue in Group 2200, and a new action will be mailed containing a double patenting rejection under *In re Schneller*. This application will now be examiner in Group 2600. Mr. Scott questioned whether applicants can withdraw the terminal disclaimer made in 397,582. Mr. Groody was unsure of the answer, but later checked with Mr. Orsino, who informed him that MPEP 1490 controlled.

Mr. Groody still believes that 08/113,329 can be expedited at the Board. Mr. Scott can refer to the appeal brief to be

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filed in that case in responding to any application having a Schneller double patenting rejection.

A telephone interview was held on June 12, 1996 between Mr. Thomas Woolston and Marc E. Bookbinder representing the PTO. For S.N. 08/448,116, Mr. Woolston indicated that the supplemental preliminary amendment of Nov. 13, 1995 was incomplete and that a complete version of such would be filed shortly to perfect the submission as originally intended. Mr. Woolston also indicated that he intended to file a second supplemental preliminary amendment in this case bringing the total number of claims to 37.

Mr. Bookbinder indicated that the Group would like to have a complete grouping of applications in a manner that was submitted earlier for only a portion of the total filings. Mr. Woolston stated that such a grouping was available and that he would forward it to the Group as soon as possible.

Mr. Bookbinder requested that each future amendment filed be accompanied by an electronically readable version thereof. Mr. Woolston stated that he could provide a disk to include one or more amendments made to applications as they were filed.

Mr. Woolston stated that he has reviewed actions that have been mailed and that he takes issue particularly with the double patenting rejections and the way In re Schneller has been applied. Mr. Bookbinder suggested that Mr. Woolston contact Mr. Groody of Group 2600 to discuss the particulars of the double patenting rejections since he was the author of those rejections.

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On November 25, 1996, a telephone interview was held between Mr. Scott and Mr. Groody. Mr. Groody informed Mr. Scott that expedited processing at the Board for 113/329 would be arranged by the Office. No action on applicants' part was necessary. Applicants no longer had to submit a listing of related cases, since the examiners did not need that. Finally, 397,582, which has been withdrawn from issue, will be examined over all of the art cited in all of the later filed Harvey cases.

- 27. The art cited in the information disclosure statements submitted by applicants has been considered. The examiner initialed 1449 forms will be sent in a later action.
- 28. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Groody whose telephone number is (703) 308-5461.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-4700.

James J. Groody
Supervisory Patent Examiner
\_Art Unit 262

Stp 2600