# EXHIBIT C - INVALIDITY CLAIM CHART FOR ALL ASSERTED CLAIMS BASED ON 2001 GMT800 MIRROR ALONE OR IN VIEW OF ONE OR MORE OF THE NOTED SECONDARY REFERENCES

### A. <u>U.S. Patent No. 7,934,843</u>

	Claim 15 (depends on claim 1)	2001 GMT800 Mirror
a.	1. An exterior sideview mirror system suitable for use on an automobile, said exterior sideview mirror system comprising:	The 2001 GMT800 Mirror (which was used for, inter alia, the 2001 Chevrolet Sierra and Silverado) is an exterior sideview mirror system suitable for use on an automobile.  2001 Chevrolet Sierra/Silverado Trailer Tow Mirror
b.	an exterior sideview mirror assembly adapted for attachment to a side of an automobile;	The <b>2001 GMT800 Mirror</b> is an exterior sideview mirror assembly adapted for attachment to a side of an automobile.
c.	said exterior sideview mirror assembly including a reflective element having a rearward field of view when attached to the side of the	The <b>2001 GMT800 Mirror</b> includes a reflective element having a rearward field of view when attached to the side of the automobile.

### automobile;

d. said reflective element attached to an electrically-operated actuator of said exterior sideview mirror assembly and movable by said actuator in order to position said rearward field of view to a driver-desired position when said exterior sideview mirror assembly is attached to the side of the automobile;

The **2001 GMT800 Mirror** includes said reflective element attached to an electrically-operated actuator of said exterior sideview mirror assembly and movable by said actuator in order to position said rearward field of view to a driver-desired position when said exterior sideview mirror assembly is attached to the side of the automobile. *See*, *e.g.*, 2001 Chevrolet Silverado Owner's Manual at p. 151.

## Electric Outside Rearview Mirrors (If Equipped)



The control is located on the driver's door armrest.

Move the upper control to the left or right to choose the mirror you want to adjust, then press the arrows on the lower control pad to adjust the mirror.

To the extent the **2001 GMT800 Mirror** does not disclose said reflective element attached to an electrically-operated actuator of said exterior sideview mirror assembly and movable by said actuator in order to position said rearward field of view to a driver-desired position when said exterior sideview mirror assembly is attached to the side of the automobile, a POSITA would have found this obvious in view of the GMT800 Platform Trailer Towing Mirror alone or in combination with one or more other references.

See discussion of element d in the claim chart for the 2001 Dodge Ram mirror.

See discussion of element d in the claim chart for the 2001 GMT800 mirror.

See discussion of element d in the claim chart for Platzer 956.

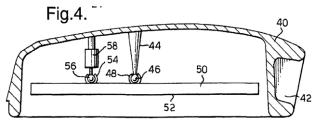
See discussion of element d in the claim chart for Platzer 731.

See discussion of element d in the claim chart for Henion 013.

See discussion of this element in the claim chart for Lynam 026.

### See EP0864465B1:

"The reflective member 50 has a second integrally moulded socket formation 54 which engages with a spherical formation 56 of a screw jack drive unit 58, which may, for example, be as described in EP-A-0272047, and which includes an electric motor to enable the reflective member 50 to be pivoted relative to the housing 40 about an axis through the spherical formation 46 perpendicular to the plane of the drawing. A similar screw jack drive unit (not shown) has its jacking screw engaging with a third spherical socket (not shown) which is integrally moulded with the reflective member 50 to permit adjustment about an axis through the spherical formation 46 orthogonal to the first mentioned axis." EP0864465B1 at [0011].



EP0864465B1 at Fig. 4.

See 49 C.F.R. § 571.111 (October 1, 1999):

"The mirror shall not be obscured by the unwiped portion of the windshield, and shall be adjustable by tilting in both horizontal and vertical directions from the driver's seated position." 49 C.F.R. § 571.111 (October 1, 1999) at 318.

See U.S. Pat. No. 6,328,451 at Figs. 1-4; 2:52-3:9.

See U.S. Pat. No. 5,721,646 at Figs. 13-21 and accompanying text.

See U.S. Pat. No. 6,984,048 at Figs. 1-4, 9 and accompanying text.

See also U.S. Pat. No. 5,579,133 at Fig. 12 and accompanying text.

See also U.S. Pat. No. 3,826,563 at Fig. 6 and accompanying text; 3:10-14.

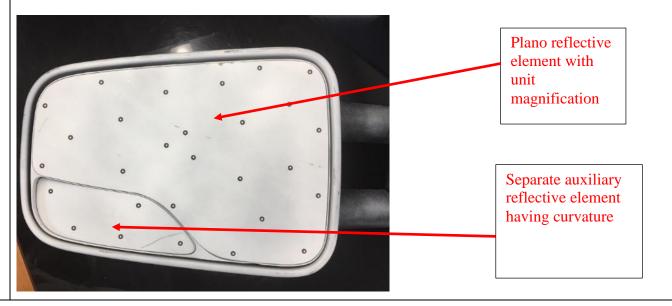
The Asserted Patents admit that an electrically actuated actuator is known in the automotive mirror art. *See, e.g.:* 

"Alternately, when actuator 136 comprises an electrically actuated actuator that is electrically operable incorporating at least one motor, control 137 can comprise a switch (which, preferably, is operable under control of the driver seated in cabin 125) or control 137 can comprise a memory controller, as known in the automotive mirror art, that controls actuator 136 to move the position of plano-multiradius reflective element assembly 130 to a pre-set orientation that suits the rearward field of view preference of an individual driver." (US 9,694,750 at 6:28-37)

The applicants conceded that this limitation was known in the art and/or obvious during the prosecution of the '750 Patent. *See* 11/25/2016 Office Action pp. 5, 12, 18.

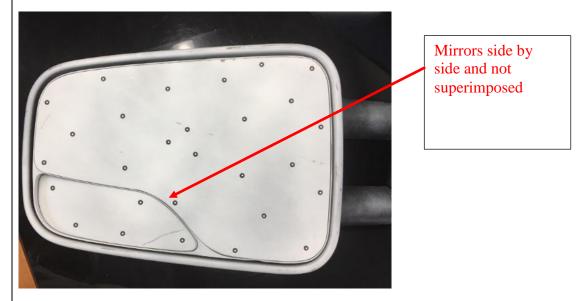
e. wherein said reflective element comprises a plano-auxiliary reflective element assembly, said plano-auxiliary reflective element assembly comprising a plano reflective element having unit magnification and a separate auxiliary reflective element having a curvature:

The **2001 GMT800 Mirror** comprises a plano-auxiliary reflective element assembly, said plano-auxiliary reflective element assembly comprising a plano reflective element having unit magnification and a separate auxiliary reflective element having a curvature.



element and said auxiliary reflective element of said plano-auxiliary reflective element of said plano-auxiliary reflective element assembly mounted adjacently at said plano-auxiliary reflective element assembly in a side-by-side relationship and not superimposed with one reflective element on top of the other reflective element;

The **2001 GMT800 Mirror** includes said plano reflective element and said auxiliary reflective element of said plano-auxiliary reflective element assembly mounted adjacently at said plano-auxiliary reflective element assembly in a side-by-side relationship and not superimposed with one reflective element on top of the other reflective element.



To the extent the **2001 GMT800 Mirror** does not disclose said plano reflective element and said auxiliary reflective element of said plano-auxiliary reflective element assembly mounted adjacently at said plano-auxiliary reflective element assembly in a side-by-side relationship and not superimposed with one reflective element on top of the other reflective element, a POSITA would have found this obvious in view of the GMT800 Platform Trailer Towing Mirror alone or in combination with one or more other references.

See discussion of element f in the claim chart for Platzer 956.

See discussion of element f in the claim chart for Platzer 731.

See discussion of element f in the claim chart for Van Nostrand.

See discussion of element f in the claim chart for Tobin.

See discussion of element f in claim chart for Kondo.

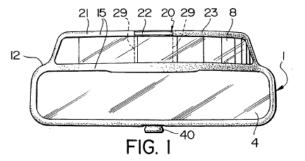
See discussion of this element in the claim chart for Lynam 026.

See U.S. Pat. No. 5,557,467:

"With reference now to FIG. 1, present mirror 1 combines a conventional first flat reflective surface 4 and a second longitudinally convex reflective surface 8. Mirror 4 provides the usual undistorted but limited field of rearward vision whereas mirror 8, being convex, provides a much wider rearward field of vision which overlaps to both sides with most persons natural peripheral vision, thereby all but eliminating the blind spots in the field of view afforded by mirror 4 alone." U.S. Pat. No. 5,557,467 at 2:39-47.

"Surrounding both of mirrors 4 and 8 is a frame 12 including a backing 13 and relatively thin raised edges 15 which overlap the adjacent edges of mirrors 4 and 8 to retain the mirrors firmly in place in fixed positions relative to each other. As shown, both mirrors as retained by frame 12 are in parallel longitudinal alignment with mirror 8 preferably, but not necessarily, located vertically above mirror 4." U.S. Pat. No. 5,557,467 at 2:48-55.

"Frame 12 is formed integrally about both mirrors to provide a unitary, seamless, aesthetically pleasing appearance while at the same time making the mirror as a whole compact, unobtrusive, easy to adjust and rigid. As shown, to provide a relatively low profile, the vertical height of mirror 8 is less than that of mirror 4." U.S. Pat. No. 5,557,467 at 2:56-61.



U.S. Pat. No. 5,557,467 at Fig. 1.

See U.S. Pat. No. 6,328,451 at Figs. 1-4; 2:52-3:9.

See U.S. Pat. No. 5,721,646 at Figs. 13-21 and accompanying text.

		See U.S. Pat. No. 6,984,048 at Figs. 1-4, 9 and accompanying text.
		See U.S. Appl. Pub. No. 2003/0039039 at [0013], Fig. 2 and accompanying text.
		See U.S. Pat. No. 3,501,227 at Figs. 1-6 and accompanying text.
		See GB1133005 at Figs. 1-4 and accompanying text.
		In addition, the applicants conceded that this limitation was known in the art and/or obvious during prosecution of the '750 Patent. <i>See</i> , <i>e.g.</i> , 11/25/2016 Office Action pp. 8, 15, 22.
	anid plane poffective	Analysis of the physical structure of the 2001 CMT900 Minnor shows that said plane reflective
g.	said plano reflective element and said auxiliary reflective element supported at a backing plate element, said backing plate element mounting to said actuator such that movement of said backing plate element of said plano-auxiliary reflective element assembly by said actuator simultaneously and similarly moves said plano reflective element and said auxiliary reflective element;	Analysis of the physical structure of the <b>2001 GMT800 Mirror</b> shows that said plano reflective element and said auxiliary reflective element supported at a backing plate element, said backing plate element mounting to said actuator such that movement of said backing plate element of said plano-auxiliary reflective element assembly by said actuator simultaneously and similarly moves said plano reflective element and said auxiliary reflective element.
h.	said auxiliary reflective element having a wide- angle field of view encompassing a blind spot in the side lane adjacent the side of the automobile to which said exterior sideview mirror assembly is attached;	The auxiliary reflective element in the <b>2001 GMT800 Mirror</b> has a wide-angle field of view encompassing a blind spot in the side lane adjacent the side of the automobile to which said exterior sideview mirror assembly is attached. The auxiliary mirror is curved, giving it a wide-angle field of view that encompasses a blind spot in the side lane adjacent the side of the automobile to which said exterior sideview mirror assembly is attached.

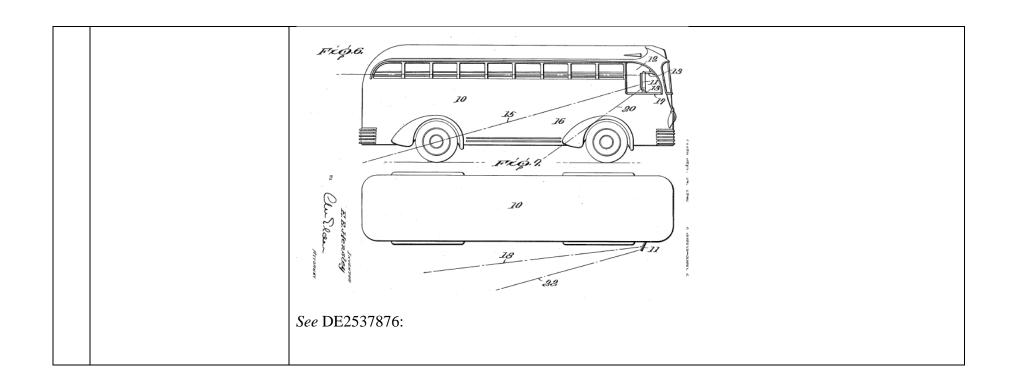
		Auxiliary mirror views into blind spot.
i.	said backing plate element having a first support portion supporting said plano reflective element and a second support portion supporting said auxiliary reflective element;	Analysis of the physical structure of the <b>2001 GMT800 Mirror</b> shows that the backing plate element has a first support portion supporting said plano reflective element and a second support portion supporting said auxiliary reflective element.
j.	wherein said auxiliary reflective element is positioned at an outboard portion of said plano-auxiliary reflective element assembly when said exterior sideview mirror assembly is mounted to the side of the automobile;	The auxiliary reflective element in the <b>2001 GMT800 Mirror</b> is positioned at an outboard portion of said plano-auxiliary reflective element assembly when said exterior sideview mirror assembly is mounted to the side of the automobile.

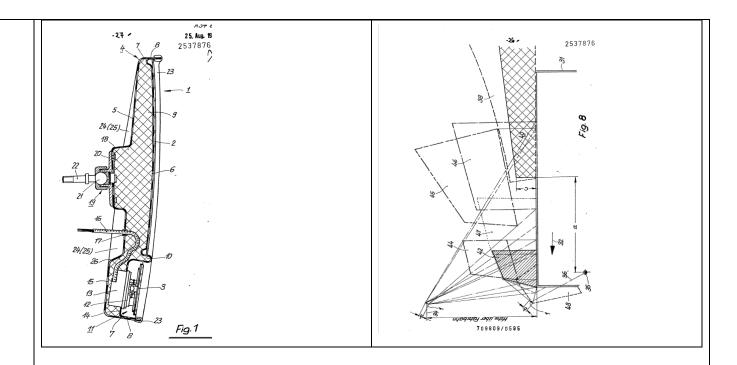
		Vehicle on this side when mirror mounted.  Auxiliary mirror is outboard (away from vehicle) when mirror is mounted.
k.	wherein said backing plate element comprises a polymeric substrate that is formed as a single element by injection molding of a polymeric resin;	Analysis of the physical structure of the backing plate in the <b>2001 GMT800 Mirror</b> shows that it comprises a polymeric substrate that is formed as a single element by injection molding of a polymeric resin.
l.	wherein said backing plate element is capable of supporting said plano reflective element and said auxiliary reflective element;	The backing plate element in the <b>2001 GMT800 Mirror</b> supports, and hence is capable of supporting, said plano reflective element and said auxiliary reflective element.
m.	wherein said first support portion of said backing plate element comprises a flat portion and wherein said plano reflective element is disposed at said flat portion;	Analysis of the physical structure of the backing plate in the <b>2001 GMT800 Mirror</b> shows that said first support portion of said backing plate element comprises a flat portion and wherein said plano reflective element is disposed at said flat portion.
n.	wherein said second support	Analysis of the physical structure of the backing plate in the <b>2001 GMT800 Mirror</b> shows that said

	portion of said backing plate element comprises a curved portion and wherein said auxiliary reflective element is disposed at said curved portion;	second support portion of said backing plate element comprises a curved portion and wherein said auxiliary reflective element is disposed at said curved portion.
0.	wherein the rearward field of view of said auxiliary reflective element is different from and angled to the rearward field of view of said plano reflective element when both are attached to said backing plate element of said plano-auxiliary reflective element assembly when said plano-auxiliary reflective element assembly is included in said exterior sideview mirror assembly and when said exterior sideview mirror assembly is attached to the side of the automobile;	The rearward field of view of the auxiliary reflective element in the <b>2001 GMT800 Mirror</b> is different from and angled to the rearward field of view of said plano reflective element when both are attached to said backing plate element of said plano-auxiliary reflective element assembly when said plano-auxiliary reflective element assembly is included in said exterior sideview mirror assembly and when said exterior sideview mirror assembly is attached to the side of the automobile. The auxiliary reflective element is curved, unlike the plano reflective element, and hence has a different field of view. Furthermore, the auxiliary reflective element is angled downward relative to the main mirror by .14 degrees and outward by 1.84 degrees. Hence, the rearward field of view of the auxiliary mirror is also angled to the rearward field of view of the plano reflective element.
p.	wherein angling of the rearward field of view of said auxiliary reflective element relative to the rearward field of view of said plano reflective element is achieved, at least in part, by an angling of said second support portion of said backing plate element supporting said auxiliary	Analysis of the physical structure of the <b>2001 GMT800 Mirror</b> shows that the angling of the rearward field of view of said auxiliary reflective element relative to the rearward field of view of said plano reflective element is achieved, at least in part, by an angling of said second support portion of said backing plate element supporting said auxiliary reflective element relative to said first support portion of said backing plate element supporting said plano reflective element.

	reflective element relative to said first support portion of said backing plate element supporting said plano reflective element;	
q.	wherein, when said exterior sideview mirror assembly is attached to the side of the automobile, the field of view of said plano reflective element generally views rearwardly of the equipped automobile and the field of view of said auxiliary reflective element generally views towards a blind spot in the side lane adjacent the side of the automobile to which said exterior sideview mirror assembly is attached, said blind spot being generally outside the rearward field of view of said plano reflective element is viewed by a driver of the equipped automobile when said exterior sideview mirror assembly is attached to the side of the automobile; and	When the 2001 GMT800 Mirror is attached to the side of the automobile, the field of view of said plano reflective element generally views rearwardly of the equipped automobile and the field of view of said auxiliary reflective element generally views towards a blind spot in the side lane adjacent the side of the automobile to which said exterior sideview mirror assembly is attached, said blind spot being generally outside the rearward field of view of said plano reflective element when said plano reflective element is viewed by a driver of the equipped automobile when said exterior sideview mirror assembly is attached to the side of the automobile.
r.	wherein at least one of said plano reflective element and said auxiliary reflective element comprises one of	Analysis of the physical structure of the <b>2001 GMT800 Mirror</b> shows that the plano reflective element comprises a glass substrate having a surface coated with a metallic reflector coating.

	(a) a glass substrate having a surface coated with a metallic reflector coating and (b) a polymeric substrate having a thin glass element applied to a surface thereof and with an opposing surface thereof having a reflecting layer applied thereto.	
S.	nirror system of claim 1, wherein the rearward field of view of said auxiliary reflective element is generally directed outwardly and downwardly with respect to the longitudinal axis of the equipped automobile when said exterior sideview mirror assembly is attached to the side of the automobile.	The rearward field of view of the auxiliary reflective element of the <b>2001 GMT800 Mirror</b> is generally directed outwardly and downwardly with respect to the longitudinal axis of the equipped automobile when said exterior sideview mirror assembly is attached to the side of the automobile. The mirror assembly in the <b>2001 GMT800 Mirror</b> is mounted on an actuator that is capable of angling the assembly so that the rearward field of view of the auxiliary mirror is generally directed outwardly and downwardly with respect to the longitudinal axis when the mirror is attached to the vehicle.  To the extent the rearward field of view of the auxiliary reflective element of the <b>2001 GMT800 Mirror</b> is not generally directed outwardly and downwardly with respect to the longitudinal axis of the equipped automobile when said exterior sideview mirror assembly is attached to the side of the automobile, a POSITA would have found this obvious in view of the GMT800 Platform Trailer Towing Mirror alone or in combination with one or more other references.
		See discussion of element s in the claim chart for the 2001 Dodge Ram mirror.
		See discussion of element s in the claim chart for the 2001 GMT800 mirror.
		See discussion of element s in the claim chart for Henion 013.
		See discussion of this element in the claim chart for Lynam 026.
		See U.S. Patent No. 2,279,751 at Fig. 6, 10:





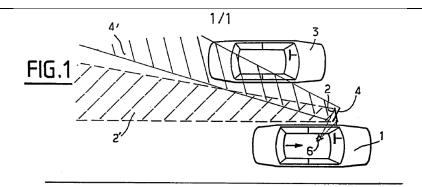
DE2537876 at Figs. 1 (left), 8

### See FR2650982:

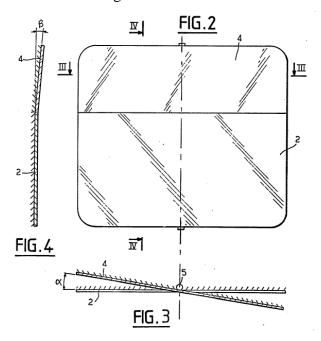
"FIG. 3 is a horizontal cross-section along III - III of FIG. 2. In this figure, it can be seen that the horizontal section of the auxiliary mirror 4 forms, with the horizontal section of the main mirror 2, an angle a, the value of which is set at the factory and which is between  $8^{\circ}$  and  $10^{\circ}$  according to the car models and preferably equal to  $9^{\circ}$ ." FR2650982 (machine translation) at 3:37-4:4.

"FIG. 4 shows a vertical section of FIG. 2 by a line IV IV.

It can be seen in this figure that the cross-sections of the two mirrors 2 and 4 by a vertical plane form between them a constant angle ss. This angle is between 1.50° and 3.50° and preferably equal to 2.50°." FR2650982 (machine translation) at 4:22-26.



FR2650982 at Fig. 1.

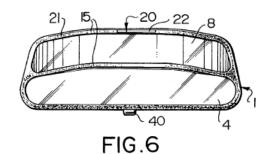


FR2650982 at Figs. 2-4.

See U.S. Pat. No. 5,557,467:

"As will be seen particularly from FIG. 6, upper lens 8, in addition to curving rearwardly to provide a convexity, also curves downwardly at its opposite ends to emulate a "droop" at its ends. This droop has been found to provide enhanced rearward vision in the vertical plane

without the excessive distortion associated with a spherical lens. The droop therefore allows children located in the vehicle's rear seat to be readily observed and also to facilitate better sighting of bicycles, scooters and motorcycles particularly in the driver's blind spots. If desired, lens 8 can be imparted with a slight spherical curvature in the vertical plane." U.S. Pat. No. 5,557,467 at 3:54-64.



U.S. Pat. No. 5,557,467 at Fig. 6.

See U.S. Pat. No. 6,062,699 at Figs. 2A-2D; 4:29-44.

See U.S. Pat. No. 5,721,646 at Figs. 13-21 and accompanying text.

See GB1133005 at Figs. 1-4 and accompanying text; 1:53-2:15.

See also U.S. Pat. No. 5,579,133 at Fig. 12 and accompanying text.

See also U.S. Pat. No. 2,279,751 at Figs. 2-7 and accompanying text.

See also U.S. Pat. No. 3,826,563 at 3:6-17.

See also U.S. Pat. No. 5,005,962 at Fig. 4 and accompanying text.

See also DE1921076 at Fig. 2b and accompanying text.

See also DE2207208 at Figs. 1-2 and accompanying text.

See also DE2537876 at Figs. 1, 8, and accompanying text.

See also US2778273 at Fig. 4 and accompanying text.

The applicants conceded that this limitation was known in the art and/or obvious during prosecution of the '712 patent. *See* 2003-3-17 Office Action at 4.

The applicants conceded that this limitation was known in the art and/or obvious during prosecution of

		the '294 Patent. See Jan. 12, 2005 Office Action at p. 5.
	Claim 33	2001 GMT800 Mirror
	(depends on claim 1)	
t.	33. The exterior sideview mirror system of claim 1, wherein the ratio of the width of said plano reflective element to the width of said auxiliary reflective element is greater than 2.5.	To the extent the GMT 800 Platform Trailer Towing Mirror does not disclose the ratio of the width of said plano reflective element to the width of said auxiliary reflective element is greater than 2.5, a POSTA would have found this obvious in view of the GMT800 Platform Trailer Towing Mirror alone or in combination with one or more other references.  See discussion of element t in the claim chart for the 2001 Dodge Ram mirror.  See discussion of element t in the claim chart for Kondo 542.  See discussion of this element in the claim chart for Lynam 026.  See GB2048189 at Fig. 1; 2:44-48; 2:66-71.  The applicants conceded that this limitation was known in the art and/or obvious during prosecution of the '451 Patent. See Apr. 21, 2001 Office Action at pp. 4-5.
	Claim 34 (depends on claim 1)	2001 GMT800 Mirror
u.	34. The exterior sideview mirror system of claim 1, wherein said exterior sideview mirror assembly comprises a door-mounted exterior sideview mirror assembly adapted for attachment to a side of the automobile adjacent a driver seating location of a driver of the automobile and wherein the rearward field of view of said auxiliary	The 2001 GMT800 Mirror is a door-mounted exterior sideview mirror assembly adapted for attachment to a side of the automobile adjacent a driver seating location of a driver of the automobile. Furthermore, the rearward field of view of said auxiliary reflective element generally views downwardly towards the road surface adjacent to the driver seating location to a distance of roughly 13 feet, which is in the range of about 1 foot to about 24 feet to the rear of the driver seating location.

reflective element generally	
views downwardly towards	
the road surface adjacent to	
the driver seating location at	
least at a distance in the	
range of about 1 foot to	
about 24 feet to the rear of	
the driver seating location.	

### B. <u>U.S. Patent No. 8,128,244</u>

Claim 24 (depends on claim 23)	
23. An exterior sideview mirror system suitable for use on an automobile, said exterior sideview mirror system comprising:	See discussion of element a above, which is incorporated herein by reference.
an exterior sideview mirror assembly adapted for attachment to a side of an automobile;	See discussion of element b above, which is incorporated herein by reference.
said exterior sideview mirror assembly including a reflective element having a rearward field of view when attached to the side of the automobile;	See discussion of element c above, which is incorporated herein by reference.
said reflective element attached to an electrically- operated actuator of said exterior sideview mirror assembly and movable by	See discussion of element d above, which is incorporated herein by reference.

said actuator in order to position said rearward field of view to a driver-desired position when said exterior sideview mirror assembly is attached to the side of the automobile;	
wherein said reflective element comprises a plano- auxiliary reflective element assembly, said plano- auxiliary reflective element assembly comprising a plano reflective element having unit magnification and a separate auxiliary reflective element having a curvature;	See discussion of element e above, which is incorporated herein by reference.
said plano reflective element and said auxiliary reflective element of said plano-auxiliary reflective element assembly mounted adjacently at said plano- auxiliary reflective element assembly in a side-by-side relationship and not superimposed with one reflective element on top of the other reflective element;	See discussion of element f above, which is incorporated herein by reference.
said plano reflective element and said auxiliary reflective element supported at a backing plate element,	See discussion of element g above, which is incorporated herein by reference.

said backing plate element mounting to said actuator such that movement of said backing plate element of said plano-auxiliary reflective element assembly by said actuator simultaneously and similarly moves said plano reflective element and said auxiliary reflective element;	
said auxiliary reflective element having a wide- angle field of view encompassing a blind spot in the side lane adjacent the side of the automobile to which said exterior sideview mirror assembly is attached;	See discussion of element h above, which is incorporated herein by reference.
said backing plate element having a first support portion supporting said plano reflective element and a second support portion supporting said auxiliary reflective element;	See discussion of element i above, which is incorporated herein by reference.
wherein said auxiliary reflective element is positioned at an outboard portion of said plano- auxiliary reflective element assembly when said exterior sideview mirror assembly is mounted to the side of the	See discussion of element j above, which is incorporated herein by reference.

automobile;	
wherein said backing plate element comprises a polymeric substrate that is formed as a single element by injection molding of a polymeric resin;	See discussion of element k above, which is incorporated herein by reference.
wherein said backing plate element is capable of supporting said plano reflective element and said auxiliary reflective element;	See discussion of element l above, which is incorporated herein by reference.
wherein said first support portion of said backing plate element comprises a flat portion and wherein said plano reflective element is disposed at said flat portion;	See discussion of element m above, which is incorporated herein by reference.
wherein said second support portion of said backing plate element comprises a curved portion and wherein said auxiliary reflective element is disposed at said curved portion;	See discussion of element n above, which is incorporated herein by reference.
wherein the rearward field of view of said auxiliary reflective element is different from and angled to the rearward field of view of said plano reflective element when both are attached to said backing	See discussion of element o above, which is incorporated herein by reference.

plate element of said plano- auxiliary reflective element assembly when said plano- auxiliary reflective element assembly is included in said exterior sideview mirror assembly and when said exterior sideview mirror assembly is attached to the side of the automobile;	
wherein angling of the rearward field of view of said auxiliary reflective element relative to the rearward field of view of said plano reflective element is achieved, at least in part, by an angling of said second support portion of said backing plate element supporting said auxiliary reflective element relative to said first support portion of said backing plate element supporting said plano reflective element;	See discussion of element p above, which is incorporated herein by reference.
wherein, when said exterior sideview mirror assembly is attached to the side of the automobile, the field of view of said plano reflective element generally views rearwardly of the equipped automobile and the field of view of said auxiliary	See discussion of element q above, which is incorporated herein by reference.

	reflective element generally views towards a blind spot in the side lane adjacent the side of the automobile to which said exterior sideview mirror assembly is attached, said blind spot being generally outside the rearward field of view of said plano reflective element when said plano reflective element is viewed by a driver of the equipped automobile when said exterior sideview mirror assembly is attached to the side of the automobile;	
	wherein said plano reflective element comprises one of (a) a glass substrate having a surface coated with a metallic reflector coating and (b) a polymeric substrate having a thin glass element applied to a surface thereof and with an opposing surface thereof having a reflecting layer applied thereto;	See discussion of element r above, which is incorporated herein by reference.
v.	wherein said auxiliary reflective element comprises a fixed reflectance mirror reflector and wherein said fixed reflectance mirror reflector comprises a curved	The auxiliary mirror in the <b>2001 GMT800 Mirror</b> comprises a fixed reflectance mirror reflector and wherein said fixed reflectance mirror reflector comprises a curved substrate coated with a metallic reflector coating. Analysis of the physical structure of the <b>2001 GMT800 Mirror</b> shows that the substrate for the auxiliary reflective element is fabricated of glass and the substrate is coated on its outermost (a.k.a. first) surface with a metallic reflector coating. It is understood and believed that the auxiliary reflective element includes a fixed reflectance mirror reflector; it is not electro-chromic. The

substrate coated with a metallic reflector coating; and

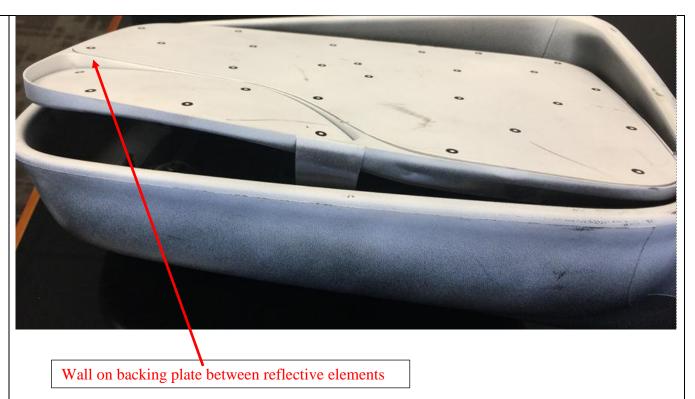
curved nature of the substrate can be seen, for example, from the photograph below.



w. wherein said plano reflective element and said auxiliary reflective element are adjacently supported at said backing plate element at a joint and wherein said joint comprises a space between said plano reflective element and said auxiliary reflective element

The plano reflective element and auxiliary reflective element in the **2001 GMT800 Mirror** are adjacently supported at said backing plate element at a joint and wherein said joint comprises a space between said plano reflective element and said auxiliary reflective element and wherein a wall located on said backing plate element at said joint is disposed between said plano reflective element and said auxiliary reflective element. This can be seen, for example, in the photograph below.

and wherein a wall located on said backing plate element at said joint is disposed between said plano reflective element and said auxiliary reflective element.



x. 24. The exterior sideview mirror system of claim 23, wherein said plano reflective element comprises a glass substrate having a surface coated with a metallic reflector coating, wherein said auxiliary reflective element comprises a fixed reflectance mirror reflector and wherein said fixed reflectance mirror reflector comprises a

spherically bent glass

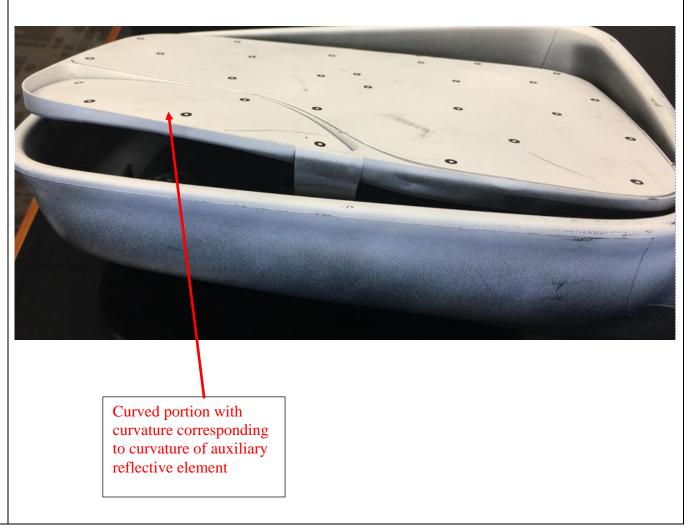
*See* discussion of element r above, which is incorporated herein by reference (explaining that both the plano reflective element and the auxiliary reflective element include a glass substrate having a surface coated with a metallic reflector coating).

Analysis of the physical structure of the **2001 GMT800 Mirror** shows that the auxiliary mirror comprises a spherically bent glass substrate.

substrate coated with a metallic reflector coating,
wherein said auryed portion

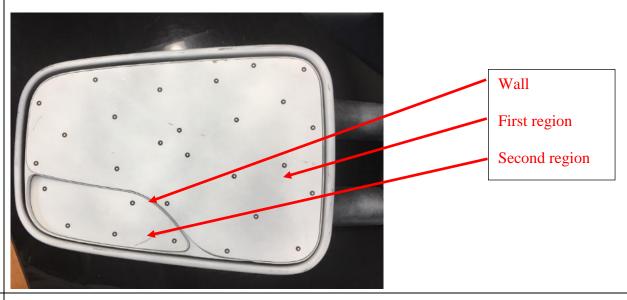
y. wherein said curved portion of said backing plate element comprises a curvature corresponding to a curvature of said auxiliary reflective element,

The curved portion of the backing plate element in the **2001 GMT800 Mirror** comprises a curvature corresponding to a curvature of said auxiliary reflective element. The correspondence between the curvature of the auxiliary reflective element and the curvature of the curved portion of the backing plate element can be observed, for example, from the photograph below.



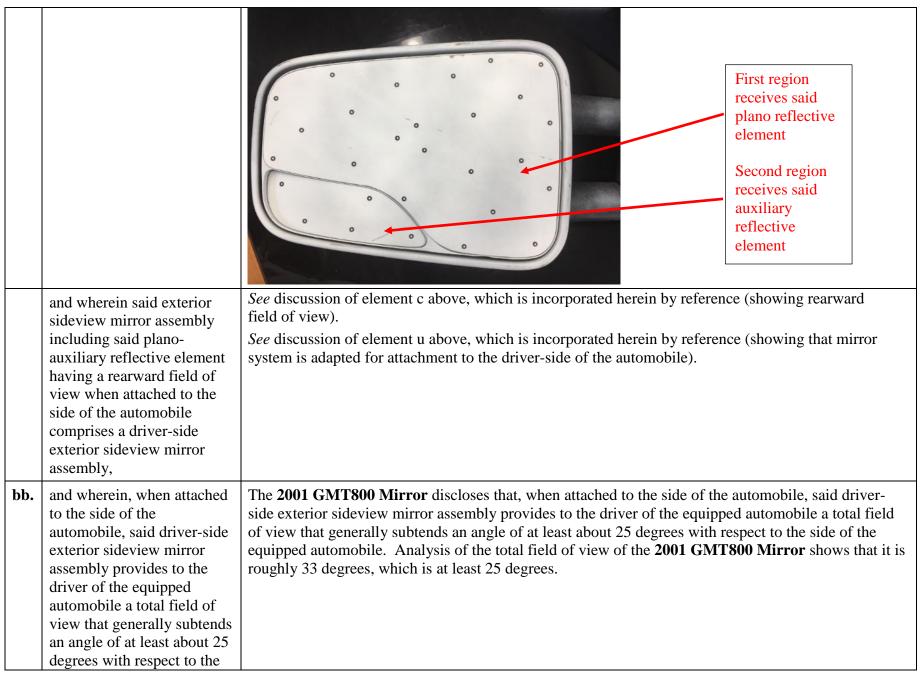
wherein said wall at least partially partitions said backing plate element into a first region where said plano reflective element is disposed and a separate and adjacent second region where said auxiliary reflective element is disposed,

The **2001 GMT800 Mirror** discloses said wall at least partially partitions said backing plate element into a first region where said plano reflective element is disposed and a separate and adjacent second region where said auxiliary reflective element is disposed. This is shown from the photograph below.



aa. and wherein said first region is adapted to receive said plano reflective element and said second region is adapted to receive said auxiliary reflective element

The **2001 GMT800 Mirror** discloses said first region is adapted to receive said plano reflective element and said second region is adapted to receive said auxiliary reflective element. This is shown from the photograph below.



side of the equipped automobile.	
Claim 26 (depends on claim 25	2001 GMT800 Mirror 5)
25. An exterior sidevice mirror system suitable use on an automobile, exterior sideview mirror system comprising:	e for said
an exterior sideview n assembly adapted for attachment to a side of automobile;	
said exterior sideview mirror assembly inclu- reflective element hav rearward field of view attached to the side of automobile;	ding a ring a when
said reflective element attached to an electrical operated actuator of sate exterior sideview mirror assembly and movable said actuator in order a position said rearward of view to a driver-desposition when said extracted to the side of automobile;	ally- aid  for  e by  to  I field sired terior ably is
wherein said reflective element comprises a p	, I

auxiliary reflective element assembly, said plano- auxiliary reflective element assembly comprising a plano reflective element having unit magnification and a separate auxiliary reflective element having a curvature;	
said plano reflective element and said auxiliary reflective element of said plano-auxiliary reflective element assembly mounted adjacently at said plano- auxiliary reflective element assembly in a side-by-side relationship and not superimposed with one reflective element on top of the other reflective element;	See discussion of element f above, which is incorporated herein by reference.
said plano reflective element and said auxiliary reflective element supported at a backing plate element, said backing plate element mounting to said actuator such that movement of said backing plate element of said plano-auxiliary reflective element assembly by said actuator simultaneously and similarly moves said plano reflective element and said	See discussion of element g above, which is incorporated herein by reference.

auxiliary reflective element;	
said auxiliary reflective element having a wide- angle field of view encompassing a blind spot in the side lane adjacent the side of the automobile to which said exterior sideview mirror assembly is attached;	See discussion of element h above, which is incorporated herein by reference.
said backing plate element having a first support portion supporting said plano reflective element and a second support portion supporting said auxiliary reflective element;	See discussion of element i above, which is incorporated herein by reference.
wherein said auxiliary reflective element is positioned at an outboard portion of said plano- auxiliary reflective element assembly when said exterior sideview mirror assembly is mounted to the side of the automobile;	See discussion of element j above, which is incorporated herein by reference.
wherein said backing plate element comprises a polymeric substrate that is formed as a single element by injection molding of a polymeric resin;	See discussion of element k above, which is incorporated herein by reference.
wherein said backing plate element is capable of	See discussion of element l above, which is incorporated herein by reference.

supporting said plano reflective element and said auxiliary reflective element;	
wherein said first support portion of said backing plate element comprises a flat portion and wherein said plano reflective element is disposed at said flat portion;	See discussion of element m above, which is incorporated herein by reference.
wherein said second support portion of said backing plate element comprises a curved portion and wherein said auxiliary reflective element is disposed at said curved portion;	See discussion of element n above, which is incorporated herein by reference.
wherein the rearward field of view of said auxiliary reflective element is different from and angled to the rearward field of view of said plano reflective element when both are attached to said backing plate element of said plano-auxiliary reflective element assembly when said plano-auxiliary reflective element assembly is included in said exterior sideview mirror assembly and when said exterior sideview mirror assembly is attached to the side of the automobile;	See discussion of element o above, which is incorporated herein by reference.

wherein angling of the	See discussion of element p above, which is incorporated herein by reference.
rearward field of view of	
said auxiliary reflective	
element relative to the	
rearward field of view of	
said plano reflective	
element is achieved, at least	
in part, by an angling of said	
second support portion of	
said backing plate element	
supporting said auxiliary	
reflective element relative to	
said first support portion of	
said backing plate element	
supporting said plano	
reflective element;	
wherein, when said exterior	See discussion of element q above, which is incorporated herein by reference.
sideview mirror assembly is attached to the side of the	
automobile, the field of	
view of said plano reflective	
element generally views	
rearwardly of the equipped	
automobile and the field of	
view of said auxiliary	
reflective element generally	
views towards a blind spot	
in the side lane adjacent the	
side of the automobile to	
which said exterior sideview	
mirror assembly is attached,	
said blind spot being	
generally outside the	
rearward field of view of	
said plano reflective	

element when said plano reflective element is viewed by a driver of the equipped automobile when said exterior sideview mirror assembly is attached to the side of the automobile;	
wherein said plano reflective element comprises one of (a) a glass substrate having a surface coated with a metallic reflector coating and (b) a polymeric substrate having a thin glass element applied to a surface thereof and with an opposing surface thereof having a reflecting layer applied thereto;	See discussion of element r above, which is incorporated herein by reference.
wherein said auxiliary reflective element comprises a fixed reflectance mirror reflector and wherein said fixed reflectance mirror reflector comprises a spherically bent glass substrate coated with a metallic reflector coating;	See discussion of element x above, which is incorporated herein by reference.
wherein the rearward field of view of said auxiliary reflective element is generally directed at least one of outwardly and downwardly with respect to	See discussion of element s above, which is incorporated herein by reference.

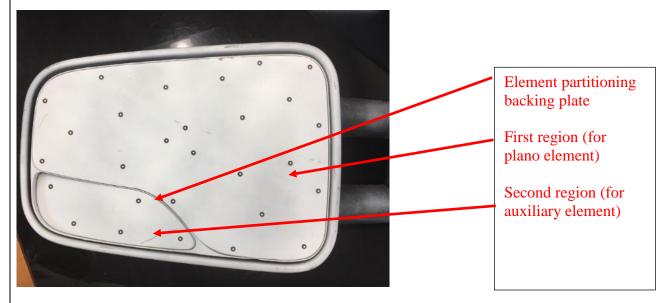
the longitudinal axis of the equipped automobile when said exterior sideview mirror assembly is attached to the side of the automobile; and	
wherein said exterior sideview mirror assembly including said plano- auxiliary reflective element having a rearward field of view when attached to the side of the automobile comprises a driver-side exterior sideview mirror assembly, and	See discussion of element c above, which is incorporated herein by reference (showing rearward field of view).  See discussion of element u above, which is incorporated herein by reference (showing that mirror system is adapted for attachment to the driver-side of the automobile).
wherein, when attached to the side of the automobile, said driver-side exterior sideview mirror assembly provides to the driver of the equipped automobile a total field of view that generally subtends an angle of at least about 25 degrees with respect to the side of the equipped automobile.	See discussion of element bb above, which is incorporated herein by reference.
26. The exterior sideview mirror system of claim 25, wherein said plano reflective element comprises a glass substrate having a surface coated with a metallic reflector coating,	See discussion of element r above, which is incorporated herein by reference.

wherein said curved portion of said backing plate element comprises a curvature corresponding to a curvature of said auxiliary reflective element, and

See discussion of element y above, which is incorporated herein by reference.

wherein an element of said cc. backing plate element at least partially partitions said backing plate element into a first region where said plano reflective element is disposed and a separate and adjacent second region where said auxiliary reflective element is disposed and wherein said first region is adapted to receive said plano reflective element and said second region is adapted to receive said auxiliary reflective element.

The **2001 GMT800 Mirror** discloses that an element of said backing plate element at least partially partitions said backing plate element into a first region where said plano reflective element is disposed and a separate and adjacent second region where said auxiliary reflective element is disposed and wherein said first region is adapted to receive said plano reflective element and said second region is adapted to receive said auxiliary reflective element. This is shown from the photograph below.



See also discussions of elements i, w, z, and aa above, which are incorporated herein by reference.

## C. <u>U.S. Patent No. 8,147,077</u>

Clain (depe	m 22 ends on claim 17)	2001 GMT800 Mirror
mirro use or exteri	n exterior sideview or system suitable for n an automobile, said ior sideview mirror m comprising:	See discussion of element a above, which is incorporated herein by reference.
assem	terior sideview mirror ably adapted for a side of an mobile;	See discussion of element b above, which is incorporated herein by reference.
mirro reflec rearw attach	exterior sideview or assembly including a ctive element having a vard field of view when ned to the side of the nobile;	See discussion of element c above, which is incorporated herein by reference.
attach opera exteri assem said a positi of vie positi sidevi attach	reflective element ned to an electrically- ited actuator of said for sideview mirror in and movable by actuator in order to fon said rearward field from when said exterior iew mirror assembly is ned to the side of the mobile;	See discussion of element d above, which is incorporated herein by reference.
	ein said reflective ent comprises a plano-	See discussion of element e above, which is incorporated herein by reference.

auxiliary reflective element assembly, said plano- auxiliary reflective element assembly comprising a plano reflective element having unit magnification and a separate auxiliary reflective element having a curvature;	
said plano reflective element and said auxiliary reflective element of said plano-auxiliary reflective element assembly mounted adjacently at said plano- auxiliary reflective element assembly in a side-by-side relationship and not superimposed with one reflective element on top of the other reflective element;	See discussion of element f above, which is incorporated herein by reference.
said plano reflective element and said auxiliary reflective element supported at a backing plate element, said backing plate element mounting to said actuator such that movement of said backing plate element of said plano-auxiliary reflective element assembly by said actuator simultaneously and similarly moves said plano reflective element and said	See discussion of element g above, which is incorporated herein by reference.

auxiliary reflective element;	
said auxiliary reflective element having a wide- angle field of view encompassing a blind spot in the side lane adjacent the side of the automobile to which said exterior sideview mirror assembly is attached;	See discussion of element h above, which is incorporated herein by reference.
said backing plate element having a first support portion supporting said plano reflective element and a second support portion supporting said auxiliary reflective element;	See discussion of element i above, which is incorporated herein by reference.
wherein said auxiliary reflective element is positioned at an outboard portion of said plano-auxiliary reflective element assembly when said exterior sideview mirror assembly is mounted to the side of the automobile;	See discussion of element j above, which is incorporated herein by reference.
wherein said backing plate element comprises a polymeric substrate that is formed as a single element by injection molding of a polymeric resin;	See discussion of element k above, which is incorporated herein by reference.
wherein said backing plate element is capable of	See discussion of element l above, which is incorporated herein by reference.

supporting said plano reflective element and said auxiliary reflective element;	
wherein said first support portion of said backing plate element comprises a flat portion and wherein said plano reflective element is disposed at said flat portion;	See discussion of element m above, which is incorporated herein by reference.
wherein said second support portion of said backing plate element comprises a curved portion and wherein said auxiliary reflective element is disposed at said curved portion;	See discussion of element n above, which is incorporated herein by reference.
wherein the rearward field of view of said auxiliary reflective element is different from and angled to the rearward field of view of said plano reflective element when both are attached to said backing plate element of said plano-auxiliary reflective element assembly when said plano-auxiliary reflective element assembly is included in said exterior sideview mirror assembly and when said exterior sideview mirror assembly is attached to the side of the automobile;	See discussion of element o above, which is incorporated herein by reference.

wherein angling of the	See discussion of element p above, which is incorporated herein by reference.
rearward field of view of	
said auxiliary reflective	
element relative to the	
rearward field of view of	
said plano reflective	
element is achieved, at least	
in part, by an angling of said	
second support portion of	
said backing plate element	
supporting said auxiliary	
reflective element relative to	
said first support portion of	
said backing plate element	
supporting said plano	
reflective element;	
1 1 1 1 1	
wherein, when said exterior	See discussion of element q above, which is incorporated herein by reference.
sideview mirror assembly is attached to the side of the	
automobile, the field of	
view of said plano reflective	
element generally views	
rearwardly of the equipped	
automobile and the field of	
view of said auxiliary	
reflective element generally	
views towards a blind spot	
in the side lane adjacent the	
side of the automobile to	
which said exterior sideview	
mirror assembly is attached,	
said blind spot being	
generally outside the	
rearward field of view of	
said plano reflective	

element when said plano reflective element is viewed by a driver of the equipped automobile when said exterior sideview mirror assembly is attached to the side of the automobile;	
wherein at least one of said plano reflective element and said auxiliary reflective element comprises one of (a) a glass substrate having a surface coated with a metallic reflector coating and (b) a polymeric substrate having a thin glass element applied to a surface thereof and with an opposing surface thereof having a reflecting layer applied thereto;	See discussion of element r above, which is incorporated herein by reference.
wherein the rearward field of view of said auxiliary reflective element is generally directed at least one of outwardly and downwardly with respect to the longitudinal axis of the equipped automobile when said exterior sideview mirror assembly is attached to the side of the automobile;	See discussion of element s above, which is incorporated herein by reference.
wherein said exterior	See discussion of element c above, which is incorporated herein by reference (showing rearward field

sideview mirror assembly including said plano-auxiliary reflective element having a rearward field of view when attached to the side of the automobile comprises a driver-side exterior sideview mirror assembly, and wherein, when attached to the side of the automobile, said driver-side exterior sideview mirror assembly provides to the driver of the equipped automobile a total field of view that generally subtends an angle of at least about 25 degrees with respect to the side of the equipped automobile; and	See discussion of element u above, which is incorporated herein by reference (showing that mirror system is adapted for attachment to the driver-side of the automobile).  See discussion of element bb above, which is incorporated herein by reference (showing that total field of view subtends angle of at least 25 degrees).
wherein said auxiliary reflective element comprises a fixed reflectance mirror reflector.	See discussion of element x above, which is incorporated herein by reference.
22. The exterior sideview mirror system of claim 17, wherein said auxiliary reflective element has a spherical curvature, and wherein said curved portion of said backing plate element has a spherical curvature.	See discussion of elements x and y above, which is incorporated herein by reference (showing that auxiliary reflective element and curved portion of backing plate element both have a spherical radius of curvature).
Claim 24	2001 GMT800 Mirror

mi uso ex	An exterior sideview irror system suitable for se on an automobile, said aterior sideview mirror extem comprising:	See discussion of element a above, which is incorporated herein by reference.
ass	n exterior sideview mirror sembly adapted for tachment to a side of an atomobile;	See discussion of element b above, which is incorporated herein by reference.
mi ref rea att	id exterior sideview irror assembly including a flective element having a arward field of view when tached to the side of the itomobile;	See discussion of element c above, which is incorporated herein by reference.
att op ex ass sai po of po sid att	id reflective element tached to an electrically- perated actuator of said acterior sideview mirror sembly and movable by id actuator in order to position said rearward field active to a driver-desired position when said exterior deview mirror assembly is tached to the side of the attomobile;	See discussion of element d above, which is incorporated herein by reference.
ele au ass au ass	herein said reflective ement comprises a plano- ixiliary reflective element sembly, said plano- ixiliary reflective element sembly comprising a ano reflective element	See discussion of element e above, which is incorporated herein by reference.

having unit magnification and a separate auxiliary reflective element having a curvature;	
said plano reflective element and said auxiliary reflective element of said plano-auxiliary reflective element assembly mounted adjacently at said plano- auxiliary reflective element assembly in a side-by-side relationship and not superimposed with one reflective element on top of the other reflective element;	See discussion of element f above, which is incorporated herein by reference.
said plano reflective element and said auxiliary reflective element supported at a backing plate element, said backing plate element mounting to said actuator such that movement of said backing plate element of said plano-auxiliary reflective element assembly by said actuator simultaneously and similarly moves said plano reflective element and said auxiliary reflective element;	See discussion of element g above, which is incorporated herein by reference.
said auxiliary reflective element having a wide- angle field of view	See discussion of element h above, which is incorporated herein by reference.

encompassing a blind spot in the side lane adjacent the side of the automobile to which said exterior sideview mirror assembly is attached;	
said backing plate element having a first support portion supporting said plano reflective element and a second support portion supporting said auxiliary reflective element;	See discussion of element i above, which is incorporated herein by reference.
wherein said auxiliary reflective element is positioned at an outboard portion of said plano-auxiliary reflective element assembly when said exterior sideview mirror assembly is mounted to the side of the automobile;	See discussion of element j above, which is incorporated herein by reference.
wherein said backing plate element comprises a polymeric substrate that is formed as a single element by injection molding of a polymeric resin;	See discussion of element k above, which is incorporated herein by reference.
wherein said backing plate element is capable of supporting said plano reflective element and said auxiliary reflective element;	See discussion of element l above, which is incorporated herein by reference.
wherein said first support	See discussion of element m above, which is incorporated herein by reference.

portion of said backing plate element comprises a flat portion and wherein said plano reflective element is disposed at said flat portion;	
wherein said second support portion of said backing plate element comprises a curved portion and wherein said auxiliary reflective element is disposed at said curved portion;	See discussion of element n above, which is incorporated herein by reference.
wherein the rearward field of view of said auxiliary reflective element is different from and angled to the rearward field of view of said plano reflective element when both are attached to said backing plate element of said plano-auxiliary reflective element assembly when said plano-auxiliary reflective element assembly is included in said exterior sideview mirror assembly and when said exterior sideview mirror assembly is attached to the side of the automobile;	See discussion of element o above, which is incorporated herein by reference.
wherein angling of the rearward field of view of said auxiliary reflective element relative to the	See discussion of element p above, which is incorporated herein by reference.

rearward field of view of said plano reflective element is achieved, at least in part, by an angling of said second support portion of said backing plate element supporting said auxiliary reflective element relative to said first support portion of said backing plate element supporting said plano reflective element;	
wherein, when said exterior sideview mirror assembly is attached to the side of the automobile, the field of view of said plano reflective element generally views rearwardly of the equipped automobile and the field of view of said auxiliary reflective element generally views towards a blind spot in the side lane adjacent the side of the automobile to which said exterior sideview mirror assembly is attached, said blind spot being generally outside the rearward field of view of said plano reflective element is viewed by a driver of the equipped automobile when said	See discussion of element q above, which is incorporated herein by reference.

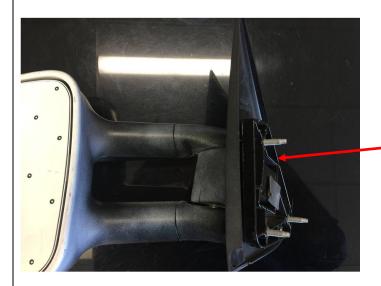
exterior sideview mirror assembly is attached to t side of the automobile;	ne
wherein said plano reflective element comprone of (a) a glass substrate having a surface coated a metallic reflector coation and (b) a polymeric substrate having a thin guide element applied to a surface thereof and with an opposing surface thereof having a reflecting layer applied thereto; and	te with ag ass ace
wherein said auxiliary reflective element composite a fixed reflectance mirror reflector and wherein said fixed reflectance mirror reflector comprises a spherically bent glass substrate coated with a metallic reflector coating	d
Claim 27 (depends on claims 24, and 26)	2001 GMT800 Mirror 25,
25. The exterior sideviev mirror system of claim 2 wherein said plano reflective element compa a glass substrate having a surface coated with a metallic reflector coating	reflective element includes a glass substrate having a surface coated with a metallic reflector coating).  See discussion of element y above, which is incorporated herein by reference (showing corresponding curvature between the curvature of the auxiliary reflective element and the curvature of the curved portion of the backing plate).

and wherein said curved portion of said backing plate element comprises a curvature corresponding to a curvature of said auxiliary reflective element.	
26. The exterior sideview mirror system of claim 25, wherein a demarcation element is disposed between said plano reflective element and said auxiliary reflective element and wherein said demarcation element comprises a part of said backing plate element, and	See discussion of element w above, which is incorporated herein by reference.
wherein said demarcation element at least partially partitions said backing plate element into a first region where said plano reflective element is disposed and a separate and adjacent second region where said auxiliary reflective element is disposed, and wherein said first region is adapted to receive said plano reflective element and said second region is adapted to receive said auxiliary reflective element.	See discussion of element cc above, which is incorporated herein by reference.
27. The exterior sideview	See discussion of elements c and u above, which is incorporated herein by reference.

mirror system of claim 26, wherein said exterior sideview mirror assembly including said plano-auxiliary reflective element having a rearward field of view when attached to the side of the automobile comprises a driver-side exterior sideview mirror assembly, and	
wherein, when attached to the side of the automobile, said driver-side exterior sideview mirror assembly provides to the driver of the equipped automobile a total field of view that generally subtends an angle of at least about 25 degrees with respect to the side of the equipped automobile.	See discussion of element bb above, which is incorporated herein by reference.

## D. <u>U.S. Patent No. 8,267,534</u>

	Claim 20 (depends on claim 13)	2001 GMT800 Mirror
	13. An exterior rearview mirror assembly for a motor vehicle, said exterior rearview mirror assembly comprising:	See discussion of element a above, which is incorporated herein by reference.
dd.	a bracket fixedly secured to the motor vehicle;	The <b>2001 GMT800 Mirror</b> includes a bracket fixedly secured to the motor vehicle. This can be seen from the photograph below.



Bracket fixedly secured to vehicle

To the extent the **2001 GMT800 Mirror** does not disclose a bracket fixedly secured to the motor vehicle, a POSITA would have found this obvious in view of the GMT800 Platform Trailer Towing Mirror alone or in combination with one or more other references.

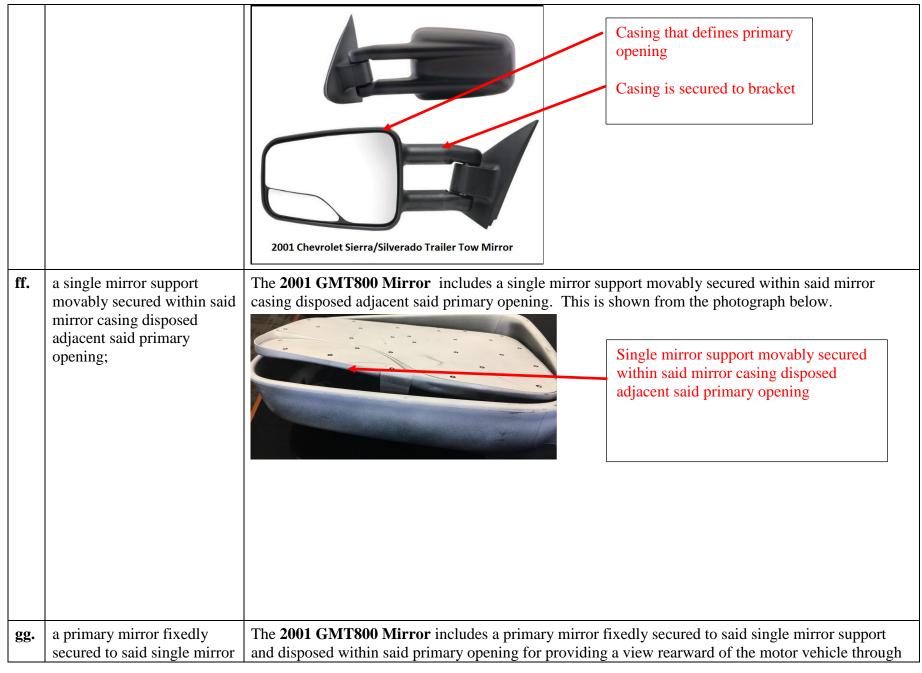
The Asserted Patents admit that this limitation was known in the automotive mirror art. See, e.g.,

"The exterior sideview mirror assembly, on whose mirror reflector-positioning actuator the plano-multiradius reflective element assembly is mounted, can be a fixedly attached exterior sideview mirror assembly, a break-away exterior sideview mirror assembly and a powerfoid exterior sideview mirror assembly, as known in the automotive mirror art." (US 9,654,750 at 12:58-64)

See 49 C.F.R. § 571.111 (October 1, 1999):

"S5.2.2 Mounting. The mirror mounting shall provide a stable support for the mirror, and neither the mirror nor the mounting shall protrude farther than the widest part of the vehicle body except to the extent necessary to produce a field of view meeting or exceeding the requirements of S5.2.1. The mirror shall not be obscured by the unwiped portion of the windshield, and shall be adjustable by tilting in both horizontal and vertical directions from the driver's seated position. The mirror and mounting shall be free of sharp points or edges that

		could contribute to pedestrian injury." 49 C.F.R. § 571.111 (October 1, 1999) at 318.
		See U.S. Pat. No. 6,328,451 at Figs. 1-4; 2:52-3:9.
		See U.S. Pat. No. 5,721,646 at Figs. 13-21 and accompanying text.
		See U.S. Pat. No. 3,501,227 at Figs. 1-6 and accompanying text.
		See GB1133005 at Figs. 1-4 and accompanying text.
		See also U.S. Pat. No. 5,579,133 at Fig. 12 and accompanying text.
		See also U.S. Pat. No. 2,279,751 at Fig. 1 and accompanying text.
		See also U.S. Pat. No. 3,826,563 at Fig. 5 and accompanying text.
		See also DE1405836 at Fig. 1 and accompanying text.
		See also DE1921076 at Fig. 2b and accompanying text.
		See also DE1921384 at Fig. 4 and accompanying text.
		See also DE2207208 at Figs. 1-2 and accompanying text.
		See also EP0864465 at Figs. 4 and accompanying text.
		See also US2778273 at Figs. 3 and accompanying text.
ee.	a mirror casing secured to said bracket, said mirror casing defining a primary opening;	The <b>2001 GMT800 Mirror</b> includes a mirror casing secured to said bracket, said mirror casing defining a primary opening. This can be shown from the photograph below.



support and disposed within said primary opening for providing a view rearward of the motor vehicle through a primary field of view; a primary field of view. This is shown in the photograph below.



Primary mirror

hh. a spotting mirror fixedly secured to said single mirror support and disposed adjacent said primary mirror, said spotting mirror defined by a single radius of curvature differing from said primary mirror such that said spotting mirror provides a second field of view rearward of the motor vehicle, such that said primary field of view of said primary mirror overlaps said second field of view of said spotting mirror;

The **2001 GMT800 Mirror** includes a spotting mirror fixedly secured to said single mirror support and disposed adjacent said primary mirror. This is shown in the photograph below.



spotting mirror

		The spotting mirror is defined by a single radius of curvature differing from said primary mirror. This is shown in the photograph below.
		Single radius of curvature differing from said primary mirror.
		An analysis of the fields of view of the primary and spotting mirrors in the <b>2001 GMT800 Mirror</b> shows that the spotting mirror provides a second field of view rearward of the motor vehicle, such that said primary field of view of said primary mirror overlaps said second field of view of said spotting mirror. The fields of view of the primary and spotting mirrors overlap by roughly 23 degrees.
ii.	wherein said spotting mirror is at an angle relative to said primary mirror; and	Analysis of the <b>2001 GMT800 Mirror</b> shows that the spotting mirror is at a .14 degree angle downward relative to the primary mirror and at a 1.84 degree angle outward relative to the primary mirror.
	wherein said primary mirror comprises one of (a) a generally flat glass substrate having a surface coated with a metallic reflector coating and (b) a generally flat polymeric substrate having a thin glass element applied to a surface thereof and with an opposing surface thereof	See discussion of element r above, which is incorporated herein by reference (explaining that primary mirror is a glass substrate having a surface coated with a metallic reflector coating).  See discussion of element e above, which is incorporated herein by reference (explaining that primary mirror is generally flat).

	having a reflecting layer applied thereto.	
jj.		To the extent that the <b>2001 GMT800 Mirror</b> does not disclose that said spotting mirror is at an angle of at least about three degrees relative to said primary mirror, a POSITA would have found this obvious in view of the GMT800 Platform Trailer Towing Mirror alone or in combination with one or more other references.  See discussion of element jj in the claim chart for Van Nostrand.  See discussion of element jj in the claim chart for Platzer 956.  See discussion of element jj in the claim chart for Van Nostrand.  See U.S. Pat. No. 3,501,227 at Figs. 1-6 and accompanying text.  See also U.S. Pat. No. 2,279,751 at Figs. 2-5 and accompanying text.  See also DE1405836 at Fig. 3 and accompanying text; p. 3.  See also DE2207208 at Figs. 1-2 and accompanying text
		See also DE2207208 at Figs. 1-2 and accompanying text.  See U.S. Pat. No. 5,721,646 at abstract, Figs. 13-21 and accompanying text.
		See U.S. Pat. No. 6,984,048 at Figs. 1-4, 9 and accompanying text.
		The applicants conceded that this limitation was known in the art and/or obvious during prosecution of the '712 Patent. <i>See</i> Mar. 17, 2003 Office Action at p. 4.

## E. <u>U.S. Patent No. 8,550,642</u>

Claim 10 (depends on claim 7)	2001 GMT800 Mirror
7. An exterior rearview mirror assembly for a motor vehicle, said exterior	See discussion of element a above, which is incorporated herein by reference.

	rearview mirror assembly comprising:	
	a bracket fixedly secured to the motor vehicle;	See discussion of element dd above, which is incorporated herein by reference.
	a mirror casing secured to said bracket, said mirror casing defining a primary opening;	See discussion of element ee above, which is incorporated herein by reference.
	a primary mirror disposed within said primary opening for providing a view rearward of the motor vehicle through a primary field of view, said primary mirror defining a primary plane;	See discussion of element gg above, which is incorporated herein by reference.
kk.	a spotting mirror spaced apart from said primary mirror, said spotting mirror extending through a secondary plane different from said primary plane;	The spotting mirror in the <b>2001 GMT800 Mirror</b> is spaced apart from the primary mirror, as shown in the photograph below. The photograph below also shows that the plane of the spotting mirror is different from the primary plane.  See also discussion of element ii above, which is incorporated herein by reference (showing that
		spotting mirror is angled relative to primary mirror, which in turn indicates that the spotting mirror is

		in a separate plane).
	wherein said spotting mirror is at an angle relative to said primary mirror;	See discussion of element ii above, which is incorporated herein by reference.
	wherein said primary mirror and said spotting mirror are supported on a mirror backing plate, and wherein said primary mirror is supported at a first portion of said mirror backing plate and said spotting mirror is supported at a second portion of said mirror backing plate;	See discussion of element g above, which is incorporated herein by reference (showing backing plate supporting primary mirror and auxiliary, spotting mirror).  See discussion of element i above, which is incorporated herein by reference (showing backing plate with a first portion that supports the primary mirror and a second portion that supports the spotting mirror).
11.	a divider of said backing plate extending between said primary mirror and said spotting mirror to separate said primary and secondary mirrors visually;	The 2001 GMT800 Mirror includes a divider of said backing plate extending between said primary mirror and said spotting mirror to separate said primary and secondary mirrors visually. This is shown in the photograph below.

		See also discussion of element cc above, which is incorporated herein by reference (showing divider element of backing plate that extends between the primary mirror and spotting mirror and that separates the primary mirror and secondary mirrors visually).  See also discussion of element w above, which is incorporated herein by reference (discussing divider/demarcation element).
	wherein said primary mirror comprises one of (a) a generally flat glass substrate having a surface coated with a metallic reflector coating and (b) a generally flat polymeric substrate having a thin glass element applied to a surface thereof and with an opposing surface thereof having a reflecting layer applied thereto;	See discussion of element r above, which is incorporated herein by reference (explaining that primary mirror is a glass substrate having a surface coated with a metallic reflector coating).  See discussion of element e above, which is incorporated herein by reference (explaining that primary mirror is generally flat).
	wherein said divider extends from said mirror backing plate and demarcates said first portion of said mirror backing plate from said second portion of said mirror backing plate;	See discussion of elements w, z, and cc above, which is incorporated herein by reference (showing and divider element of backing plate that demarcates the first portion of the mirror backing plate from the second portion of the mirror backing plate).
mm.	wherein said first portion of said mirror backing plate, said second portion of said mirror backing plate and said divider are commonly injection molded to form said mirror backing plate;	The <b>2001 GMT800 Mirror</b> discloses said first portion of said mirror backing plate, said second portion of said mirror backing plate and said divider are commonly injection molded to form said mirror backing plate. The demarcation element is part of the packing plate. <i>See</i> discussion of element w above, which is incorporated herein by reference. As explained above, the backing plate, which includes the divider/demarcation and the first and second portions, is formed as a single element by injection molding of a polymeric material. <i>See</i> discussion of element k above, which is incorporated herein by reference.

	and	
nn.	wherein, when supported at said second portion of said mirror backing plate, said spotting mirror is tilted downwardly with respect to said primary mirror at an angle in a range of about	To the extent the <b>2001 GMT800 Mirror</b> does not disclose that when supported at said second portion of said mirror backing plate, said spotting mirror is tilted downwardly with respect to said primary mirror at an angle in a range of about 0.75 degrees to about 5 degrees, a POSITA would have found this obvious in view of the GMT800 Platform Trailer Towing Mirror alone or in combination with one or more other references.
	0.75 degrees to about 5 degrees.	FR2650982 discloses that said spotting mirror is tilted downwardly with respect to said primary mirror at an angle in a range of about 0.75 degrees to about 5 degrees.
		"FIG. 4 shows a vertical section of FIG. 2 by a line IV IV.
		It can be seen in this figure that the cross-sections of the two mirrors 2 and 4 by a vertical plane form between them a constant angle ss. This angle is between 1.50° and 3.50° and preferably equal to 2.50°." FR2650982 (machine translation) at 4:22-26.
		FIG.2
		FIG. 4
		FR2650982 at Fig. 4 (left) and Fig. 2 (right).
		See discussion of element nn in the claim chart for Van Nostrand.
		See U.S. Pat. No. 5,721,646 at abstract, Figs. 13-21 and accompanying text.
		See U.S. Pat. No. 6,984,048 at Figs. 1-4, 9 and accompanying text.

10. An exterior rearview	See U.S. Pat. No. 6,062,699 at Figs. 2A-2D; 4:29-44.  The applicants conceded that this limitation was known in the art and/or obvious during prosecution of the '712 Patent. See Mar. 17, 2003 Office Action at p. 4.  The applicants conceded that this limitation was known in the art and/or obvious during prosecution of the '294 Patent. See Jan. 12, 2005 Office Action at p. 5.  See discussion of element s above, which is incorporated herein by reference.
mirror assembly as set forth in claim 7, wherein the second field of view of said spotting mirror is generally directed at least one of outwardly and downwardly with respect to the longitudinal axis of the motor vehicle when said exterior rearview mirror assembly is attached to the motor vehicle.	
Claim 11 (depends on claim 7)	2001 GMT800 Mirror
11. An exterior rearview mirror assembly as set forth in claim 7, wherein said spotting mirror is at an angle of at least about three degrees relative to said primary mirror.	See discussion of element jj above, which is incorporated herein by reference.

## F. <u>U.S. Patent No. 8,591,047</u>

	Claim 16 (depends on claims 1 and 15)	2001 GMT800 Mirror
	1. An exterior sideview mirror assembly suitable for use on a vehicle, said exterior sideview mirror assembly comprising:	See discussion of element a above, which is incorporated herein by reference.
00.	a mirror housing;	The 2001 GMT800 Mirror includes a mirror housing. This is shown in the photograph below.  Mirrors housing
	a mirror backing plate element;	See discussion of element g above, which is incorporated herein by reference.
	wherein said mirror backing plate element is movable within said mirror housing by an electrically-operable	See discussion of elements d and g above, which is incorporated herein by reference (showing and discussing mounting of backing plate to an electrically-operable actuator, which makes the backing plate element moveable within the mirror housing).

actuator;	
a main plano mirror element fixedly disposed at a first portion of said mirror backing plate element;	See discussion of elements e, i, and m above, which is incorporated herein by reference (showing plano mirror element, first portion of the backing plate element, and that the plano mirror is disposed at the first portion of the backing plate element).
said main plano mirror element having a first primary field of view rearward of a vehicle equipped with said exterior sideview mirror assembly;	See discussion of elements e and gg above, which is incorporated herein by reference (showing plano mirror element and showing primary field of view provided by the primary mirror rearward of a vehicle equipped with the exterior sideview mirror assembly).
an auxiliary non-plano curved mirror element fixedly disposed at a second portion of said mirror backing plate element;	See discussion of elements e, i, and n above, which is incorporated herein by reference (showing an auxiliary mirror element with a curvature, second portion of the backing plate element, and that the auxiliary mirror is disposed at the second portion of the backing plate element).
wherein said main plano mirror element and said auxiliary non-plano curved mirror element are adjacently disposed at said mirror backing plate element in a side-by-side relationship and are not superimposed with one mirror element on top of the other mirror element;	See discussion of element f above, which is incorporated herein by reference.
wherein said mirror backing plate element comprises a polymeric molding;	See discussion of element k above, which is incorporated herein by reference.
said auxiliary non-plano curved mirror element having a second auxiliary	See discussion of elements e and hh above, which is incorporated herein by reference (showing auxiliary non-plano curved mirror element and showing second auxiliary field of view provided by the auxiliary mirror element rearward of a vehicle equipped with the exterior sideview mirror assembly).

field of view rearward of the equipped vehicle;	
wherein said first primary field of view of said main plano mirror element overlaps said second auxiliary field of view of said auxiliary non-plano curved mirror element;	See discussion of element hh above, which is incorporated herein by reference (showing overlap between first field of view of the primary, main plano mirror element and the second field of view of the auxiliary, non-plano curved mirror element).
wherein said auxiliary non- plano curved mirror element that is at said second portion of said mirror backing plate element is angled relative to said main plano mirror element that is at said first portion of said mirror backing plate element;	See discussion of element ii above, which is incorporated herein by reference (showing angling of auxiliary non-plano curved mirror element relative to main plano mirror element).  See also discussion of elements o and p above, which is incorporated herein by reference (showing angling of the field of view from the spotting mirror relative to the field of view from the primary mirror and showing angling of backing plate).
wherein said mirror backing plate element mounts to said actuator such that movement of said mirror backing plate element by said actuator simultaneously and similarly moves said main plano mirror element and said auxiliary non-plano curved mirror element;	See discussion of element g above, which in incorporated herein by reference.
wherein said main plano mirror element comprises one of (a) a generally flat glass substrate having a surface coated with a metallic reflector coating	See discussion of element r above, which is incorporated herein by reference (explaining that main plano mirror element is a glass substrate having a surface coated with a metallic reflector coating).  See discussion of element e above, which is incorporated herein by reference (explaining that main plano mirror is generally flat).

	and (b) a generally flat polymeric substrate having a thin glass element applied to a surface thereof and with an opposing surface thereof having a reflecting layer applied thereto; and	
pp.	wherein said first primary field of view of said main plano mirror element overlaps said second auxiliary field of view of said auxiliary non-plano curved mirror element by between about 2 degrees and about 20 degrees.	Analysis of the 2001 GMT800 Mirror shows that said first primary field of view of said main plano mirror element overlaps said second auxiliary field of view of said auxiliary non-plano curved mirror element by between roughly 13.5 and 15.4 degrees, which is between about 2 degrees and about 20 degrees.  To the extent the 2001 GMT800 Mirror does not disclose that said first primary field of view of said main plano mirror element overlaps said second auxiliary field of view of said auxiliary non-plano curved mirror element by between about 2 degrees and about 20 degrees, a POSITA would have found this obvious in view of the GMT800 Platform Trailer Towing Mirror alone or in combination with one or more other references.  See discussion of element pp in the claim chart for the 2001 Dodge Ram mirror.  See discussion of element pp in the claim chart for the 2001 GMT800 mirror.  See discussion of element pp in the claim chart for Van Nostrand.  See U.S. Pat. No. 5,721,646 at abstract, Figs. 13-21 and accompanying text.  See U.S. Pat. No. 6,984,048 at Figs. 1-4, 9 and accompanying text.  See discussion of element pp in the claim chart for Platzer 956.  The applicants conceded that this limitation was known in the art and/or obvious during prosecution of the '750 Patent. See Nov. 25, 2016 Office Action at pp. 8-9, 23.
qq.	15. The exterior sideview mirror assembly of claim 1, wherein, when used in the exterior sideview mirror	The main plano mirror element of the <b>2001 GMT800 Mirror</b> has a rearward field of view that generally subtends an angle of roughly 15 degrees, which is less than about 20 degrees, relative to the side of the equipped vehicle.

	assembly of the equipped vehicle, said main plano mirror element has a rearward field of view that generally subtends an angle of less than about 20 degrees relative to the side of the equipped vehicle.	
rr.	16. The exterior sideview mirror assembly of claim 15, wherein, when used in the exterior sideview mirror assembly of the equipped vehicle, said auxiliary nonplano curved mirror element has a rearward field of view that generally subtends an angle that is in the range from about 15 degrees relative to the side of the equipped vehicle to about 50 degrees relative to the side of the equipped vehicle.	The auxiliary non-plano curved mirror element of the <b>2001 GMT800 Mirror</b> has a rearward field of view that generally subtends an angle of roughly 33 degrees relative to the side of the equipped vehicle, which is in the range from about 15 degrees relative to the side of the equipped vehicle to about 50 degrees relative to the side of the equipped vehicle.
	Claim 19 (depends on claims 1 and 18)	2001 GMT800 Mirror
	18. The exterior sideview mirror assembly of claim 1, wherein said second auxiliary field of view rearward of the equipped vehicle views into a blind spot in a side lane adjacent the side of the equipped	See discussion of element q above, which is incorporated herein by reference.

	vehicle at which said exterior sideview mirror assembly is attached, and wherein said blind spot is generally outside the rearward field of view of said main plano mirror element when said main plano mirror element is viewed by a driver of the equipped vehicle when said exterior sideview mirror assembly is attached at the side of the equipped vehicle.	
SS.	19. The exterior sideview mirror assembly of claim 18, wherein, when disposed at said second portion of said mirror backing plate element, at least one of (a) said auxiliary non-plano curved mirror element is tilted generally downward with respect to a Y-axis of said main plano mirror element by an angle that is the range from about 0.75 degrees to about 5 degrees and (b) said auxiliary non-plano curved mirror element is tilted generally forwardly with respect to an X-axis of said main plano mirror element by an angle that is the range from about 0.75	When disposed at said second portion of said mirror backing plate element, the auxiliary non-plano curved mirror element of the <b>2001 GMT800 Mirror</b> is tilted generally forwardly with respect to an X-axis of said main plano mirror element by roughly 1.84 degrees, which is an angle that is the range from about 0.75 degrees to about 5 degrees.

degrees to about 5 degrees.	
Claim 25 (depends on claims 1, 18, 19, 20, 22, 23, and 24)	2001 GMT800 Mirror
20. The exterior sideview mirror assembly of claim 19, wherein said auxiliary non-plano curved mirror element comprises a reflector-coated convex-curved substrate.	See discussion of element r above, which is incorporated herein by reference (explaining that auxiliary non-plano mirror element is a glass substrate having a surface coated with a metallic reflector coating). See discussion of element v above, which is incorporated herein by reference (explaining the auxiliary non-plano mirror element is a curved substrate coated with a metallic reflector coating). The convex-curved nature of the substrate can be seen, for example, in the photographs included in the discussion of element v above.
22. The exterior sideview mirror assembly of claim 20, wherein said second portion of said mirror backing plate element is convex-curved.	See discussion of element y above, which is incorporated herein by reference (explaining that the second, curved portion of the mirror backing plate has a curvature corresponding to the curvature of the auxiliary mirror element).
23. The exterior sideview mirror assembly of claim 22, wherein said auxiliary non-plano curved mirror element has a spherical curvature.	See discussion of element x above, which is incorporated herein by reference (showing that the auxiliary non-plano curved mirror element has a spherical radius of curvature).
24. The exterior sideview mirror assembly of claim 23, wherein said second portion of said mirror backing plate element has a curvature at least partially matching said spherical curvature.	See discussion of elements x and y above, which is incorporated herein by reference (showing that auxiliary reflective element and curved portion of backing plate element both have a spherical radius of curvature and showing that the curvatures are at least partially matching).
25. The exterior sideview mirror assembly of claim	See discussion of element bb above, which is incorporated herein by reference.

	24, wherein the overall rearward field of view of said main plano mirror element combined with said auxiliary non-plano curved mirror element is at least about 25 degrees relative to the side of the equipped vehicle.	
	Claim 26 (depends on claims 1, 18, 19, 20, 22, 23, 24, and 25)	2001 GMT800 Mirror
tt.	26. The exterior sideview mirror assembly of claim 25, wherein the overall rearward field of view of said main plano mirror element combined with said auxiliary non-plano curved mirror element is less than about 50 degrees relative to the side of the equipped vehicle.	The overall field of view of said main plano mirror element combined with said auxiliary non-plano curved mirror element in the <b>2001 GMT800 Mirror</b> is roughly 33 degrees relative to the side of the equipped vehicle, which is less than about 50 degrees relative to the side of the equipped vehicle.
	Claim 27	2001 GMT800 Mirror
	(depends on claims 1, 18, 19, 20, 22, 23, 24, 25, and 26)	
uu.	27. The exterior sideview mirror assembly of claim 26, wherein said first primary field of view of said main plano mirror element overlaps said second	To the extent the <b>2001 GMT800 Mirror</b> does not disclose said first primary field of view of said main plano mirror element overlaps said second auxiliary field of view of said auxiliary non-plano curved mirror element by between about 5 degrees and about 15 degrees, a POSITA would have found this obvious in view of the GMT800 Platform Trailer Towing Mirror alone or in combination with one or more other references.

	auxiliary field of view of said auxiliary non-plano curved mirror element by between about 5 degrees and about 15 degrees.  Claim 33 (depends on claim 1)	See discussion of element uu in the claim chart for Platzer 956.  See discussion of element uu in the claim chart for Van Nostrand.  See U.S. Pat. No. 5,721,646 at abstract, Figs. 13-21 and accompanying text.  See U.S. Pat. No. 6,984,048 at Figs. 1-4, 9 and accompanying text.  The applicants conceded that this limitation was known in the art and/or obvious during prosecution of the '750 Patent. See Nov. 25, 2016 Office Action at pp. 10-11, 25.  2001 GMT800 Mirror
vv.	33. The exterior sideview mirror assembly of claim 1, wherein said auxiliary nonplano curved mirror element comprises a heater element operable to demist/deice the outmost surface of said auxiliary non-plano curved mirror element when said auxiliary non-plano curved mirror element is disposed at said mirror backing plate element and when said exterior sideview mirror assembly is attached and operated at the side of the equipped vehicle.	The 2001 GMT800 Mirror includes a heater element operable to demist/deice the outermost surface of said auxiliary non-plano curved mirror element. See 2001 Silverado Manual at p. 151.  Heated Outside Rearview Mirrors (If Equipped)  The outside rearview mirrors with this feature have a defrost mode.  To turn on the defrost feature, press the rear window defogger button. See "Rear Window Defogger" in the Index for further information.
	Claim 35 (depends on claims 1 and 34)	2001 GMT800 Mirror
	<b>34.</b> The exterior sideview mirror assembly of claim <b>1</b> , wherein said exterior sideview mirror assembly	See discussion of element u above, which is incorporated herein by reference (showing that mirror system is adapted for attachment to the driver-side of the automobile and therefore comprises a driver-side exterior sideview mirror assembly).

comprises a driver-side exterior sideview mirror assembly.	
35. The exterior sideview mirror assembly of claim 34, wherein, when attached at the side of the equipped vehicle, said driver-side exterior sideview mirror assembly provides to the driver of the equipped vehicle a total rearward field of view that generally subtends an angle of at least about 25 degrees with respect to the side of the equipped vehicle.	See discussion of element bb above, which is incorporated herein by reference.
Claim 39	2001 GMT800 Mirror
(depends on claim 1)	
39. The exterior sideview mirror assembly of claim 1, wherein said first primary field of view of said main plano mirror element overlaps said second auxiliary field of view of said auxiliary non-plano curved mirror element by between about 5 degrees	See discussion of element uu above, which is incorporated herein by reference.

## G. <u>U.S. Patent No. 8,783,882</u>

Claim 3 (depends on claims 1 and 2)	2001 GMT800 Mirror
1. An exterior sideview mirror assembly suitable for use on a vehicle, said exterior sideview mirror assembly comprising:	See discussion of element a above, which is incorporated herein by reference.
a mirror housing;	See discussion of element oo above, which is incorporated herein by reference.
a mirror backing plate element;	See discussion of element g above, which is incorporated herein by reference.
wherein said mirror backing plate element is movable within said mirror housing by an electrically-operable actuator;	See discussion of elements d and g above, which is incorporated herein by reference (showing and discussing mounting of backing plate to an electrically-operable actuator, which makes the backing plate element moveable within the mirror housing).
a main plano mirror element fixedly disposed at a first portion of said mirror backing plate element;	See discussion of elements e, i, and m above, which is incorporated herein by reference (showing plano mirror element, first portion of the backing plate element, and that the plano mirror is disposed at the first portion of the backing plate element).
said main plano mirror element having a first primary field of view rearward of a vehicle equipped with said exterior sideview mirror assembly;	See discussion of elements e and gg above, which is incorporated herein by reference (showing plano mirror element and showing primary field of view provided by the primary mirror rearward of a vehicle equipped with the exterior sideview mirror assembly).
an auxiliary non-plano curved mirror element fixedly disposed at a second portion of said mirror	<i>See</i> discussion of elements e, i, m, and n above, which is incorporated herein by reference (showing an auxiliary mirror element with a curvature, second portion of the backing plate element, and that the auxiliary mirror is disposed at the second portion of the backing plate element).

backing plate	e element;	
mirror eleme adjacently di mirror backin element in a relationship a superimpose	nt and said a-plano curved nt are sposed at said ng plate side-by-side and are not d with one nt on top of the	See discussion of element f above, which is incorporated herein by reference.
said auxiliary curved mirro having a seco field of view equipped veh	r element and auxiliary rearward of the	See discussion of elements e and hh above, which is incorporated herein by reference (showing auxiliary non-plano curved mirror element and showing second auxiliary field of view provided by the auxiliary mirror element rearward of a vehicle equipped with the exterior sideview mirror assembly).
wherein said field of view plano mirror overlaps said auxiliary fiel said auxiliary curved mirro	of said main element second d of view of non-plano	See discussion of element gg and hh above, which is incorporated herein by reference (showing overlap between first field of view of the primary, main plano mirror element and the second field of view of the auxiliary, non-plano curved mirror element).
plano curved that is at said of said mirro element is an said main pla	is at said first id mirror	See discussion of element ii above, which is incorporated herein by reference (showing angling of auxiliary non-plano curved mirror element relative to main plano mirror element).  See also discussion of elements o and p above, which is incorporated herein by reference (showing angling of the field of view from the spotting mirror relative to the field of view from the primary mirror and showing angling of backing plate).

wherein said many plate element mactuator such the movement of said backing plate elements and said actuator sing and similarly many main plano mirror and said auxiliation curved mirror elements.	nounts to said lat	sion of element g above, which is incorporated herein by reference.
wherein said m plate element co polymeric mole	omprises a plate elem	sion of element k above, which is incorporated herein by reference (discussing that backing ent is formed by injection molding of a polymeric resin).
wherein said maniferror element generally flat glassing a surfact a metallic reflection.	comprises a plano mirro see discus plano mirro plano mirro see coated with plano mirro plano plano mirro plano plano mirro plano plano mirro plano pla	sion of element r above, which is incorporated herein by reference (explaining that main or element is a glass substrate having a surface coated with a metallic reflector coating). sion of element e above, which is incorporated herein by reference (explaining that main or is generally flat).
wherein the overearward field of said main plants element combine auxiliary non-pmirror element about 25 degrees the side of the evenicle; and	of view of o mirror ned with said lano curved is at least es relative to	sion of element bb above, which is incorporated herein by reference.
wherein the overearward field of said main pland element combinauxiliary non-pmirror element about 50 degree	of view of o mirror ned with said lano curved is less than	sion of element tt above, which is incorporated herein by reference.

	the side of the equipped vehicle.	
	2. The exterior sideview mirror assembly of claim 1, wherein said auxiliary nonplano curved mirror element comprises a reflector-coated convex-curved substrate and wherein said second portion of said mirror backing plate element is convex-curved and wherein said auxiliary non-plano curved mirror element has a spherical curvature.	See discussion of element r above, which is incorporated herein by reference (explaining that auxiliary non-plano mirror element is a glass substrate having a surface coated with a metallic reflector coating). See discussion of element v above, which is incorporated herein by reference (explaining the auxiliary non-plano mirror element is a curved substrate coated with a metallic reflector coating). The convex-curved nature of the substrate can be seen, for example, in the photographs included in the discussion of element v above.  See discussion of element y above, which is incorporated herein by reference (explaining that the second, curved portion of the mirror backing plate has a curvature corresponding to the curvature of the auxiliary mirror element). Because the auxiliary mirror element has a convex curvature, as explained above, the second portion of the mirror backing plate is also convex-curved.  See discussion of element x above, which is incorporated herein by reference (showing that the auxiliary non-plano curved mirror element has a spherical radius of curvature).
	3. The exterior sideview mirror assembly of claim 2, wherein said second portion of said mirror backing plate element has a curvature at least partially matching said spherical curvature of said auxiliary non-plano curved mirror element.	See discussion of elements x and y above, which is incorporated herein by reference (showing that auxiliary reflective element and curved portion of backing plate element both have a spherical radius of curvature and showing that the curvatures are at least partially matching).
	Claim 18	2001 GMT800 Mirror
	18. An exterior sideview mirror assembly suitable for use on a vehicle, said exterior sideview mirror assembly comprising:	See discussion of element a above, which is incorporated herein by reference.
	a mirror housing;	See discussion of element oo above, which is incorporated herein by reference.
	a mirror backing plate	See discussion of element g above, which is incorporated herein by reference.

element;	
wherein said mirror backing plate element is movable within said mirror housing by an electrically-operable actuator;	See discussion of elements d and g above, which is incorporated herein by reference (showing and discussing mounting of backing plate to an electrically-operable actuator, which makes the backing plate element moveable within the mirror housing).
a main plano mirror element fixedly disposed at a first portion of said mirror backing plate element;	See discussion of elements e, i, and m above, which is incorporated herein by reference (showing plano mirror element, first portion of the backing plate element, and that the plano mirror is disposed at the first portion of the backing plate element).
said main plano mirror element having a first primary field of view rearward of a vehicle equipped with said exterior sideview mirror assembly;	See discussion of elements e and gg above, which is incorporated herein by reference (showing plano mirror element and showing primary field of view provided by the primary mirror rearward of a vehicle equipped with the exterior sideview mirror assembly).
an auxiliary non-plano curved mirror element fixedly disposed at a second portion of said mirror backing plate element;	See discussion of elements e, i, and n above, which is incorporated herein by reference (showing an auxiliary mirror element with a curvature, second portion of the backing plate element, and that the auxiliary mirror is disposed at the second portion of the backing plate element).
wherein said main plano mirror element has a fixed reflectance and wherein said auxiliary non-plano curved mirror element has a fixed reflectance;	See discussion of element r above, which is incorporated herein by reference (explaining that both the plano reflective element and the auxiliary reflective element include a glass substrate having a surface coated with a metallic reflector coating).
wherein said main plano mirror element and said auxiliary non-plano curved mirror element are adjacently disposed at said mirror backing plate	See discussion of element f above, which is incorporated herein by reference.

element in a side-by-side relationship and are not superimposed with one mirror element on top of the other mirror element;	
said auxiliary non-plano curved mirror element having a second auxiliary field of view rearward of the equipped vehicle;	See discussion of elements e and hh above, which is incorporated herein by reference (showing auxiliary non-plano curved mirror element and showing second auxiliary field of view provided by the auxiliary mirror element rearward of a vehicle equipped with the exterior sideview mirror assembly).
wherein said first primary field of view of said main plano mirror element overlaps said second auxiliary field of view of said auxiliary non-plano curved mirror element by between about 2 degrees and about 20 degrees;	See discussion of element pp above, which is incorporated herein by reference
wherein said auxiliary non- plano curved mirror element that is at said second portion of said mirror backing plate element is angled relative to said main plano mirror element that is at said first portion of said mirror backing plate element;	See discussion of element ii above, which is incorporated herein by reference (showing angling of auxiliary non-plano curved mirror element relative to main plano mirror element).  See also discussion of elements o and p above, which is incorporated herein by reference (showing angling of the field of view from the spotting mirror relative to the field of view from the primary mirror and showing angling of backing plate).
wherein said mirror backing plate element mounts to said actuator such that movement of said mirror backing plate element by said actuator simultaneously	See discussion of element g above, which is incorporated herein by reference

and similarly moves said main plano mirror element and said auxiliary non-plano curved mirror element;	
wherein said mirror backing plate element comprises a polymeric molding;	See discussion of element k above, which is incorporated herein by reference (discussing that backing plate element is formed by injection molding of a polymeric resin).
wherein said main plano mirror element comprises a generally flat glass substrate having a surface coated with a metallic reflector coating;	See discussion of element r above, which is incorporated herein by reference (explaining that main plano mirror element is a glass substrate having a surface coated with a metallic reflector coating).  See discussion of element e above, which is incorporated herein by reference (explaining that main plano mirror is generally flat).
wherein the overall rearward field of view of said main plano mirror element combined with said auxiliary non-plano curved mirror element is at least about 25 degrees relative to the side of the equipped vehicle; and	See discussion of element bb above, which is incorporated herein by reference.
wherein the overall rearward field of view of said main plano mirror element combined with said auxiliary non-plano curved mirror element is less than about 50 degrees relative to the side of the equipped vehicle.	See discussion of element tt above, which is incorporated herein by reference.

Claim 20	2001 GMT800 Mirror
(depends on claim 18)	
20. The exterior sideview	See discussion of element ss above, which is incorporated herein by reference.
mirror assembly of claim	
18, wherein said main plano	
mirror element has an X-	
axis and a Y-axis and	
wherein, when disposed at	
said second portion of said	
mirror backing plate	
element, said auxiliary non-	
plano curved mirror element	
is at least one of (a) tilted	
generally downward with	
respect to the Y-axis of said	
main plano mirror element	
by an angle that is in the	
range from about 0.75	
degrees to about 5 degrees	
and (b) tilted generally	
forwardly with respect to	
the X-axis of said main	
plano mirror element by an	
angle that is in the range	
from about 0.75 degrees to	
about 5 degrees.	

## H. <u>U.S. Patent No. 8,899,762</u>

Claim 8 (depends on claims 1, 2, 3, 5, and 7)	2001 GMT800 Mirror
1. An exterior sideview mirror system suitable for	See discussion of element a above, which is incorporated herein by reference.

ex	se on an automobile, said exterior sideview mirror system comprising:	
as: att au sa:	n exterior sideview mirror ssembly adapted for ttachment to a side of an utomobile equipped with aid exterior sideview hirror system;	See discussion of element b above, which is incorporated herein by reference.
rei rea att	aid exterior sideview hirror assembly including a effective element having a earward field of view when ttached to the side of the quipped automobile;	See discussion of element c above, which is incorporated herein by reference.
att op ex ass sa: po of po sic att	aid reflective element trached to an electrically-perated actuator of said acterior sideview mirror assembly and movable by aid actuator in order to osition said rearward field for view to a driver-desired osition when said exterior deview mirror assembly is trached to and operated at the side of the equipped automobile;	See discussion of element d above, which is incorporated herein by reference.
ele au as: au	wherein said reflective lement comprises a plano- uxiliary reflective element essembly, said plano- uxiliary reflective element essembly comprising a	See discussion of element e above, which is incorporated herein by reference.

plano reflective element having substantially unit magnification and a separate auxiliary reflective element having a curvature;	
wherein said plano reflective element and said auxiliary reflective element are supported at a backing plate element, said backing plate element mounting to said actuator such that movement of said backing plate element by said actuator simultaneously and similarly moves said plano reflective element and said auxiliary reflective element;	See discussion of element g above, which is incorporated herein by reference.
wherein said backing plate element comprises a polymeric substrate that is formed as a single element by injection molding of a polymeric resin;	See discussion of element k above, which is incorporated herein by reference.
said backing plate element having a first support portion supporting said plano reflective element and a second support portion supporting said auxiliary reflective element;	See discussion of element i above, which is incorporated herein by reference.
wherein said plano reflective element and said auxiliary reflective element	See discussion of element f above, which is incorporated herein by reference.

of said plano-areflective elementare supported a said backing plano in a side-by-side relationship and superimposed with the other reflective elementary.	ent assembly djacently at ate element e I not with one ent on top of	
said auxiliary relement having angle field of vencompassing a in the side lane side of the equivalence automobile at vexterior sidevice assembly is attacoperated;	a wide- iew a blind spot adjacent the pped which said w mirror	ve, which is incorporated herein by reference.
wherein said at reflective eleme positioned at ar portion of said auxiliary reflect assembly when sideview mirro attached to the equipped auton	ent is a outboard plano- tive element said exterior c assembly is side of the	ve, which is incorporated herein by reference.
wherein at leas plano reflective said auxiliary relement compre (a) a glass subs a surface coate	element and eflective ses one of trate having	ve, which is incorporated herein by reference.

metallic reflector coating and (b) a polymeric substrate having a thin glass element applied to a surface thereof and with an opposing surface thereof having a reflecting layer applied thereto;	
wherein, when said exterior sideview mirror assembly is attached to and operated at the side of the equipped automobile, the field of view of said auxiliary reflective element overlaps with the field of view of said plano reflective element;	See discussion of element hh above, which is incorporated herein by reference (showing overlap between the field of view of the plano reflective element and the field of view of the auxiliary reflective element).
wherein said exterior sideview mirror assembly comprises a driver-side exterior sideview mirror assembly;	See discussion of element u above, which is incorporated herein by reference (showing that mirror system is adapted for attachment to the driver-side of the automobile).
wherein said second support portion of said backing plate element is configured such that said auxiliary reflective element supported thereat is tilted forwardly at an angle α with respect to the X-axis of said plano reflective element supported at said first support portion of said backing plate element;	See discussion of element ss above, which is incorporated herein by reference.

	wherein α is in the range from about 0.75 degrees to about 5 degrees;	See discussion of element ss above, which is incorporated herein by reference.
	wherein said second support portion of said backing plate element is configured such that said auxiliary reflective element supported thereat is tilted downwardly at an angle $\beta$ with respect to the Y-axis of said plano reflective element supported at said first support portion of said backing plate element; and	See discussion of element ss above, which is incorporated herein by reference.
	wherein $\beta$ is in the range from about 0.75 degrees to about 5 degrees.	See discussion of element ss above, which is incorporated herein by reference.
ww.	2. The exterior sideview mirror system of claim 1, wherein said auxiliary reflective element is supported at said second support portion of said backing plate element by at least one of an adhesive attachment and a mechanical attachment.	The auxiliary reflective element in the <b>2001 GMT800 Mirror</b> is supported at said second support portion of said backing plate element by at least one of an adhesive attachment and a mechanical attachment.
XX.	3. The exterior sideview mirror system of claim 2, wherein said auxiliary reflective element is supported at said backing plate element at a location	A portion of said plano reflective element in the 2001 GMT800 Mirror is disposed closer to the side of the equipped automobile than any portion of said auxiliary reflective element. This is shown in the photograph below.

such that, when said exterior sideview mirror assembly is attached to and operated at the side of the equipped automobile, at least a portion of said plano reflective element is disposed closer to that side of the equipped automobile than any portion of said auxiliary reflective element.	Portion of plano element closer to side of vehicle  2001 Chevrolet Sierra/Silverado Trailer Tow Mirror
5. The exterior sideview mirror system of claim 3, wherein said auxiliary reflective element comprises a spherical mirror element.	See discussion of element x above, which is incorporated herein by reference (explaining that auxiliary reflective element has a spherical radius of curvature).
7. The exterior sideview mirror system of claim 5, wherein said plano reflective element comprises a glass substrate having a surface coated with a metallic reflector coating.	See discussion of element r above, which is incorporated herein by reference (explaining that plano mirror element is a glass substrate having a surface coated with a metallic reflector coating).
8. The exterior sideview mirror system of claim 7, wherein said auxiliary reflective element comprises a glass substrate having a surface coated with a metallic reflector coating.	See discussion of element r above, which is incorporated herein by reference (explaining that auxiliary mirror element is a glass substrate having a surface coated with a metallic reflector coating).

Claim 15 (depends on claims 13 and 14)	2001 GMT800 Mirror
13. An exterior sideview mirror system suitable for use on an automobile, said exterior sideview mirror system comprising:	See discussion of element a above, which is incorporated herein by reference.
an exterior sideview mirror assembly adapted for attachment to a side of an automobile equipped with said exterior sideview mirror system;	See discussion of element b above, which is incorporated herein by reference.
said exterior sideview mirror assembly including a reflective element having a rearward field of view when attached to the side of the equipped automobile;	See discussion of element c above, which is incorporated herein by reference.
said reflective element attached to an electrically- operated actuator of said exterior sideview mirror assembly and movable by said actuator in order to position said rearward field of view to a driver-desired position when said exterior sideview mirror assembly is attached to and operated at the side of the equipped automobile;	See discussion of element d above, which is incorporated herein by reference.
wherein said reflective	See discussion of element e above, which is incorporated herein by reference.

element comprises a plano- auxiliary reflective element assembly, said plano- auxiliary reflective element assembly comprising a plano reflective element having substantially unit magnification and a separate auxiliary reflective element having a curvature;	
wherein said plano reflective element and said auxiliary reflective element are supported at a backing plate element, said backing plate element mounting to said actuator such that movement of said backing plate element by said actuator simultaneously and similarly moves said plano reflective element and said auxiliary reflective element;	See discussion of element g above, which is incorporated herein by reference.
said backing plate element having a first support portion supporting said plano reflective element and a second support portion supporting said auxiliary reflective element;	See discussion of element i above, which is incorporated herein by reference.
wherein said backing plate element comprises a polymeric substrate that is formed as a single element	See discussion of element k above, which is incorporated herein by reference.

by injection molding of a polymeric resin;	
wherein said plano reflective element and said auxiliary reflective element of said plano-auxiliary reflective element assembly are supported adjacently at said backing plate element in a side-by-side relationship and not superimposed with one reflective element on top of the other reflective element;	See discussion of element f above, which is incorporated herein by reference.
said auxiliary reflective element having a wide- angle field of view encompassing a blind spot in the side lane adjacent the side of the equipped automobile at which said exterior sideview mirror assembly is attached and operated;	See discussion of element h above, which is incorporated herein by reference.
wherein said auxiliary reflective element is positioned at an outboard portion of said plano- auxiliary reflective element assembly when said exterior sideview mirror assembly is attached to the side of the equipped automobile;	See discussion of element j above, which is incorporated herein by reference.
wherein at least one of said	See discussion of element r above, which is incorporated herein by reference.

plano reflective element and said auxiliary reflective element comprises one of (a) a glass substrate having a surface coated with a metallic reflector coating and (b) a polymeric substrate having a thin glass element applied to a surface thereof and with an opposing surface thereof having a reflecting layer applied thereto;	
wherein, when said exterior sideview mirror assembly is attached to and operated at the side of the equipped automobile, said auxiliary reflective element has a rearward field of view with a principal axis and said plano reflective element has a rearward field of view with a principal axis and wherein the field of view of said auxiliary reflective element overlaps with the field of view of said plano reflective element;	
wherein said exterior sideview mirror assembly comprises a driver-side exterior sideview mirror assembly;	See discussion of element u above, which is incorporated herein by reference (showing that mirror system is adapted for attachment to the driver-side of the automobile).

wherein said second support portion is angled with respect to said first support portion whereby said principal axis of said rearward field of view of said auxiliary reflective element is angled downwardly and outwardly with respect to said principal axis of said rearward field of view of said plano reflective element when said exterior sideview mirror assembly is attached to and operated at the side of the equipped automobile; and	See discussion of element ii above, which is incorporated herein by reference (showing angling of second support portion with respect to the first support portion).  See discussion of elements o and p above, which is incorporated herein by reference (showing angling of the field of view from the auxiliary reflective element relative to the field of view from the plano reflective element and showing angling of backing plate).  See discussion of element s above, which is incorporated herein by reference (showing downward and outward angling of the principal axis of the rearward field of view of the auxiliary reflective element with respect to the principal axis of the rearward field of view of the plano reflective element).
wherein the overall rearward field of view of said plano reflective element combined with said auxiliary reflective element is at least about 25 degrees, and wherein the overall rearward field of view of said plano reflective element combined with said auxiliary reflective element is less than about 50 degrees.	See discussion of element bb above, which is incorporated herein by reference (showing overall field of view of at least about 25 degrees).  See discussion of element tt above, which is incorporated herein by reference (showing overall field of view of less than about 50 degrees).
14. The exterior sideview mirror system of claim 13, wherein said auxiliary	See discussion of element xx above, which is incorporated herein by reference.

reflective element is supported at said backing plate element at a location such that, when said exterior mirror assembly is attached to and operated at the side of the equipped automobile, at least a portion of said plano reflective element is disposed closer to that side of the equipped automobile than any portion of said auxiliary reflective element,	
and wherein said auxiliary reflective element is supported at said second support portion of said backing plate element by at least one of an adhesive attachment and a mechanical attachment.	See discussion of element ww above, which is incorporated herein by reference.
nirror system of claim 14, wherein said plano reflective element comprises a glass substrate having a surface coated with a metallic reflector coating, and wherein said auxiliary reflective element comprises a glass substrate having a surface coated with a metallic reflector coating, and wherein said auxiliary reflective element comprises a glass substrate having a surface coated with a metallic reflector coating, and wherein said auxiliary reflective element comprises	See discussion of element r above, which is incorporated herein by reference (explaining that plano and auxiliary mirror elements are both a glass substrate having a surface coated with a metallic reflector coating).  See discussion of element x above, which is incorporated herein by reference (explaining that auxiliary reflective element has a spherical radius of curvature).

## I. <u>U.S. Patent No. 9,694,750</u>

Claim 8 (depends on claims 1 and 7)	2001 GMT800 Mirror
1. An exterior sideview mirror assembly suitable for vehicular use, said exterior sideview mirror assembly comprising:	See discussion of element a above, which is incorporated herein by reference.
a mirror housing;	See discussion of element oo above, which is incorporated herein by reference.
a mirror backing plate element;	See discussion of element g above, which is incorporated herein by reference (showing backing plate).
wherein said mirror backing plate element is movable within said mirror housing by an electrically-operable actuator;	See discussion of elements d and g above, which is incorporated herein by reference (showing and discussing mounting of backing plate to an electrically-operable actuator, which makes the backing plate element moveable within the mirror housing).
a main plano mirror element fixedly disposed at a first portion of said mirror backing plate element;	See discussion of elements e, i, and m above, which is incorporated herein by reference (showing plano mirror element, first portion of the backing plate element, and that the plano mirror is disposed at the first portion of the backing plate element).
said main plano mirror element having a first primary field of view rearward of a vehicle equipped with said exterior sideview mirror assembly;	See discussion of elements e and gg above, which is incorporated herein by reference (showing plano mirror element and showing primary field of view provided by the primary mirror rearward of a vehicle equipped with the exterior sideview mirror assembly).
an auxiliary non-plano curved mirror element	See discussion of elements e, i, and n above, which is incorporated herein by reference (showing an auxiliary mirror element with a curvature, second portion of the backing plate element, and that the

fixedly disposed at a second portion of said mirror backing plate element;	auxiliary mirror is disposed at the second portion of the backing plate element).
wherein said auxiliary non- plano curved mirror element comprises a convex-curved	See discussion of element r above, which is incorporated herein by reference (explaining that auxiliary non-plano mirror element is a glass substrate having a surface coated with a metallic reflector coating).
substrate coated with a metallic reflector coating;	See discussion of element v above, which is incorporated herein by reference (explaining the auxiliary non-plano mirror element is a curved substrate coated with a metallic reflector coating).
said auxiliary non-plano curved mirror element having a second auxiliary field of view rearward of the vehicle equipped with said exterior sideview mirror assembly;	See discussion of elements e and hh above, which is incorporated herein by reference (showing auxiliary non-plano curved mirror element and showing second auxiliary field of view provided by the auxiliary mirror element rearward of a vehicle equipped with the exterior sideview mirror assembly).
wherein said second auxiliary field of view rearward of the equipped vehicle views into a blind spot in a side lane adjacent the side of the equipped vehicle at which said exterior sideview mirror assembly is attached, and wherein the blind spot is outside the rearward field of view of said main plano mirror element when said main plano mirror element is viewed by a driver of the equipped vehicle when said exterior sideview mirror assembly is attached at the side of the equipped vehicle;	See discussion of element q above, which is incorporated herein by reference.

wherein said main plano mirror element and said auxiliary non-plano curved mirror element are adjacently disposed at said mirror backing plate element in a side-by-side relationship and are not superimposed with one mirror element on top of the other mirror element;	See discussion of element f above, which is incorporated herein by reference.
wherein said mirror backing plate element comprises a polymeric molding;	See discussion of element k above, which is incorporated herein by reference (discussing that backing plate element is formed by injection molding of a polymeric resin).
wherein said second portion of said mirror backing plate element is convex-curved;	See discussion of element y above, which is incorporated herein by reference (explaining that the second, curved portion of the mirror backing plate has a curvature corresponding to the curvature of the auxiliary mirror element). Because the auxiliary mirror element has a convex curvature, as explained above, the second portion of the mirror backing plate is also convex-curved.
wherein said reflector- coated convex-curved substrate of said auxiliary non-plano curved mirror element has a spherical curvature, and wherein said second portion of said mirror backing plate element has a curvature at least partially matching said spherical curvature;	See discussion of elements x and y above, which is incorporated herein by reference (showing that auxiliary mirror element and curved portion of backing plate element both have a spherical radius of curvature and showing that the curvatures are at least partially matching).
wherein said first primary field of view of said main plano mirror element overlaps said second auxiliary field of view of	See discussion of element hh above, which is incorporated herein by reference (showing overlap between first field of view of the primary, main plano mirror element and the second field of view of the auxiliary, non-plano curved mirror element).

said auxiliary non-plano curved mirror element;	
wherein a principal axis of said second auxiliary field of view of said auxiliary non-plano curved mirror element that is at said second portion of said mirror backing plate element is different from and angled relative to a principal axis of said first primary field of view of said main plano mirror element that is at said first portion of said mirror backing plate element;	See discussion of element o above, which is incorporated herein by reference (explaining and showing angling and difference between the principal axis of the field of view of the auxiliary reflective element and the principal axis of the first primary field of view of the main plano mirror element).
wherein the principal axis of said second auxiliary field of view of said auxiliary non-plano curved mirror element is tilted downward with respect to the principal axis of said first primary field of view of said main plano mirror element;	See discussion of element s above, which is incorporated herein by reference (explaining and showing downward angling of the principal axis of the rearward field of view of the auxiliary mirror element with respect to the principal axis of the first primary field of view of the main plano mirror element).
wherein said mirror backing plate element mounts to said actuator such that movement of said mirror backing plate element by said actuator simultaneously and similarly moves said main plano mirror element	See discussion of element g above, which in incorporated herein by reference.

	uxiliary non-plano rror element;	
mirror eler one of (a) a glass subst surface coa metallic re and (b) a g polymeric a thin glass to a surface an opposin	aid main plano ment comprises a generally flat trate having a ated with a effector coating generally flat substrate having s element applied the thereof and with ag surface thereof effecting layer ereto;	See discussion of element r above, which is incorporated herein by reference (explaining that main plano mirror element is a glass substrate having a surface coated with a metallic reflector coating).  See discussion of element e above, which is incorporated herein by reference (explaining that main plano mirror is generally flat).
field of vie plano mirr overlaps sa auxiliary f said auxili curved mir between al	ew of said main or element aid second ield of view of ary non-plano error element by bout 2 degrees 20 degrees;	See discussion of element pp above, which is incorporated herein by reference.
exterior side assembly of vehicle, sa mirror eler rearward for subtends a than about	ield of view that n angle of less 20 degrees the side of the	See discussion of element qq above, which is incorporated herein by reference.

wherein said main plano mirror element has a fixed reflectance;	<i>See</i> discussion of element r above, which is incorporated herein by reference (explaining that both the plano reflective element and the auxiliary reflective element include a glass substrate having a surface coated with a metallic reflector coating).
wherein said auxiliary non- plano curved mirror element has a fixed reflectance; and	See discussion of element r above, which is incorporated herein by reference (explaining that both the plano reflective element and the auxiliary reflective element include a glass substrate having a surface coated with a metallic reflector coating).
wherein said exterior sideview mirror assembly comprises a driver-side exterior sideview mirror assembly.	See discussion of element u above, which is incorporated herein by reference (showing that mirror system is adapted for attachment to the driver-side of the automobile and therefore comprises a driver-side exterior sideview mirror assembly).
7. The exterior sideview mirror assembly of claim 1,	See discussion of element bb above, which is incorporated herein by reference (showing overall field of view of at least about 25 degrees).
wherein the overall rearward field of view of said main plano mirror element combined with said auxiliary non-plano curved mirror element is at least about 25 degrees relative to the side of the equipped vehicle, and wherein the overall rearward field of view of said main plano mirror element combined with said auxiliary non-plano curved mirror element is less than about 50 degrees relative to the side of the equipped vehicle.	See discussion of element tt above, which is incorporated herein by reference (showing overall field of view of less than about 50 degrees).
8. The exterior sideview mirror assembly of claim 7, wherein said first primary field of view of said main	See discussion of element uu above, which is incorporated herein by reference.

plano mirror element overlaps said second auxiliary field of view of said auxiliary non-plano curved mirror element by between about 5 degrees and about 15 degrees.	
Claim 14 (depends on claims 1, 10, 11, 12, and 13)	2001 GMT800 Mirror
10. The exterior sideview mirror assembly of claim 1, wherein said main plano mirror element is disposed at said mirror backing plate element by at least one of adhesive attachment and mechanical attachment and wherein said auxiliary nonplano curved mirror element is disposed at said mirror backing plate element by at least one of adhesive attachment and mechanical attachment.	See discussion of element ww above, which is incorporated herein by reference (explaining that both auxiliary and plano mirror elements are disposed at the backing plate element by adhesive attachment).
11. The exterior sideview mirror assembly of claim 10, wherein said auxiliary non-plano curved mirror element comprises a bent glass substrate.	See discussion of element x above, which is incorporated herein by reference.
12. The exterior sideview mirror assembly of claim 11, comprising a heater	See discussion of element vv above, which is incorporated herein by reference.

element operable to demist/deice the outmost surface of said auxiliary non-plano curved mirror element when said auxiliary non-plano curved mirror element is disposed at said mirror backing plate element and when said exterior sideview mirror assembly is attached and operated at the side of the equipped vehicle. See discussion of element bb above, which is incorporated herein by reference (showing total **13.** The exterior sideview rearward field of view that generally subtends an angle of at least about 25 degrees with respect to mirror assembly of claim the side of the equipped vehicle). 12, wherein, when attached at the side of the equipped See discussion of element rr above, which is incorporated herein by reference (showing that auxiliary vehicle, said driver-side non-plano mirror element has a rearward field of view that generally subtends an angle relative to the exterior sideview mirror side of the equipped vehicle that is in the range from about 15 degrees relative to the side of the equipped vehicle to about 50 degrees). assembly provides to the driver of the equipped vehicle a total rearward field of view that generally subtends an angle of at least about 25 degrees with respect to the side of the equipped vehicle, and wherein, when used in the exterior sideview mirror assembly of the equipped vehicle, said auxiliary nonplano curved mirror element has a rearward field of view that generally subtends an angle relative to the side of

the equipped vehicle that is in the range from about 15 degrees relative to the side of the equipped vehicle to about 50 degrees.	
14. The exterior sideview mirror assembly of claim 13, wherein said first primary field of view of said main plano mirror element overlaps said second auxiliary field of view of said auxiliary non-plano curved mirror element by between about 5 degrees and about 15 degrees.	See discussion of element uu above, which is incorporated herein by reference.
Claim 25 (depends on claims 22, 23, and 24)	2001 GMT800 Mirror
22. An exterior sideview mirror assembly suitable for vehicular use, said exterior sideview mirror assembly comprising:	See discussion of element a above, which is incorporated herein by reference.
a mirror housing;	See discussion of element oo above, which is incorporated herein by reference.
a mirror backing plate element;	See discussion of element g above, which is incorporated herein by reference (showing backing plate).
wherein said mirror backing plate element is movable	See discussion of elements d and g above, which is incorporated herein by reference (showing and discussing mounting of backing plate to an electrically-operable actuator, which makes the backing plate element moveable within the mirror housing).
within said mirror housing by an electrically-operable actuator;	plate element moveable within the mirror nousing).

fixedly disposed at a first portion of said mirror backing plate element;	plano mirror element, first portion of the backing plate element, and that the plano mirror is disposed at the first portion of the backing plate element).
said main plano mirror element having a first primary field of view rearward of a vehicle equipped with said exterior sideview mirror assembly;	See discussion of elements e and gg above, which is incorporated herein by reference (showing plano mirror element and showing primary field of view provided by the primary mirror rearward of a vehicle equipped with the exterior sideview mirror assembly).
an auxiliary non-plano curved mirror element fixedly disposed at a second portion of said mirror backing plate element;	See discussion of elements e, i, and n above, which is incorporated herein by reference (showing an auxiliary mirror element with a curvature, second portion of the backing plate element, and that the auxiliary mirror is disposed at the second portion of the backing plate element).
wherein said auxiliary non- plano curved mirror element comprises a convex-curved glass substrate coated with a metallic reflector coating;	See discussion of element r above, which is incorporated herein by reference (explaining that auxiliary non-plano mirror element is a glass substrate having a surface coated with a metallic reflector coating).  See discussion of element v above, which is incorporated herein by reference (explaining the auxiliary non-plano mirror element is a curved substrate coated with a metallic reflector coating).
said auxiliary non-plano curved mirror element having a second auxiliary field of view rearward of the vehicle equipped with said exterior sideview mirror assembly;	See discussion of elements e and hh above, which is incorporated herein by reference (showing auxiliary non-plano curved mirror element and showing second auxiliary field of view provided by the auxiliary mirror element rearward of a vehicle equipped with the exterior sideview mirror assembly).
wherein said second auxiliary field of view rearward of the equipped vehicle views into a blind spot in a side lane adjacent the side of the equipped vehicle at which said	See discussion of element q above, which is incorporated herein by reference.

exterior sideview mirror assembly is attached, and wherein the blind spot is outside the rearward field of view of said main plano mirror element when said main plano mirror element is viewed by a driver of the equipped vehicle when said exterior sideview mirror assembly is attached at the side of the equipped vehicle;	
wherein said main plano mirror element and said auxiliary non-plano curved mirror element are adjacently disposed at said mirror backing plate element in a side-by-side relationship and are not superimposed with one mirror element on top of the other mirror element;	See discussion of element f above, which is incorporated herein by reference.
wherein said mirror backing plate element comprises a polymeric molding;	See discussion of element k above, which is incorporated herein by reference (discussing that backing plate element is formed by injection molding of a polymeric resin).
wherein said second portion of said mirror backing plate element is convex-curved;	See discussion of element y above, which is incorporated herein by reference (explaining that the second, curved portion of the mirror backing plate has a curvature corresponding to the curvature of the auxiliary mirror element). Because the auxiliary mirror element has a convex curvature, as explained above, the second portion of the mirror backing plate is also convex-curved.
wherein said reflector- coated convex-curved substrate of said auxiliary non-plano curved mirror	See discussion of elements x and y above, which is incorporated herein by reference (showing that auxiliary mirror element and curved portion of backing plate element both have a spherical radius of curvature and showing that the curvatures are at least partially matching).

element has a spherical curvature, and wherein said second portion of said mirror backing plate element has a curvature at least partially matching said spherical curvature;	
wherein said first primary field of view of said main plano mirror element overlaps said second auxiliary field of view of said auxiliary non-plano curved mirror element;	See discussion of element hh above, which is incorporated herein by reference (showing overlap between first field of view of the primary, main plano mirror element and the second field of view of the auxiliary, non-plano curved mirror element).
wherein a principal axis of said second auxiliary field of view of said auxiliary non-plano curved mirror element that is at said second portion of said mirror backing plate element is different from and angled relative to a principal axis of said first primary field of view of said main plano mirror element that is at said first portion of said mirror backing plate element;	See discussion of element o above, which is incorporated herein by reference (explaining and showing angling and difference between the principal axis of the field of view of the auxiliary reflective element and the principal axis of the first primary field of view of the main plano mirror element).
wherein the principal axis of said second auxiliary field of view of said auxiliary non-plano curved mirror element is tilted downward	See discussion of element s above, which is incorporated herein by reference (explaining and showing downward angling of the principal axis of the rearward field of view of the auxiliary mirror element with respect to the principal axis of the first primary field of view of the main plano mirror element).

with respect to the princip axis of said first primary field of view of said main plano mirror element;	al
wherein said mirror backing plate element mounts to sa actuator such that movement of said mirror backing plate element by said actuator simultaneous and similarly moves said main plano mirror element and said auxiliary non-placurved mirror element;	ly
wherein said main plano mirror element comprises generally flat glass substra having a surface coated w a metallic reflector coating	See discussion of element e above, which is incorporated herein by reference (explaining that main plano mirror is generally flat).
wherein said first primary field of view of said main plano mirror element overlaps said second auxiliary field of view of said auxiliary non-plano curved mirror element by between about 2 degrees and about 20 degrees;	See discussion of element pp above, which is incorporated herein by reference.
wherein, when used in an exterior sideview mirror assembly of an equipped vehicle, said main plano mirror element has a rearward field of view tha	See discussion of element qq above, which is incorporated herein by reference.

subtends an angle of less than about 20 degrees relative to the side of the equipped vehicle;	
wherein said main plano mirror element has a fixed reflectance;	<i>See</i> discussion of element r above, which is incorporated herein by reference (explaining that both the plano reflective element and the auxiliary reflective element include a glass substrate having a surface coated with a metallic reflector coating).
wherein said auxiliary non- plano curved mirror element has a fixed reflectance;	<i>See</i> discussion of element r above, which is incorporated herein by reference (explaining that both the plano reflective element and the auxiliary reflective element include a glass substrate having a surface coated with a metallic reflector coating).
wherein said exterior sideview mirror assembly comprises a driver-side exterior sideview mirror assembly; and	See discussion of element u above, which is incorporated herein by reference (showing that mirror system is adapted for attachment to the driver-side of the automobile and therefore comprises a driver-side exterior sideview mirror assembly).
wherein the overall rearward field of view of said main plano mirror element combined with said auxiliary non-plano curved mirror element is at least about 25 degrees relative to the side of the equipped vehicle, and wherein the overall rearward field of view of said main plano mirror element combined with said auxiliary non-plano curved mirror element is less than about 50 degrees relative to the side of the equipped vehicle.	See discussion of element bb above, which is incorporated herein by reference (showing overall field of view of at least about 25 degrees).  See discussion of element tt above, which is incorporated herein by reference (showing overall field of view of less than about 50 degrees).
23. The exterior sideview	See discussion of element ww above, which is incorporated herein by reference (explaining that both

mirror assembly of claim 22, wherein said main plano mirror element is disposed at said mirror backing plate element by adhesive attachment and wherein said auxiliary non-plano curved mirror element is disposed at said mirror backing plate element by adhesive attachment.	auxiliary and plano mirror elements are disposed at the backing plate element by adhesive attachment).
24. The exterior sideview mirror assembly of claim 23, comprising a heater element operable to demist/deice the outmost surface of said auxiliary non-plano curved mirror element when said auxiliary non-plano curved mirror element is disposed at said mirror backing plate element and when said exterior sideview mirror assembly is attached and operated at the side of the equipped vehicle.	See discussion of element vv above, which is incorporated herein by reference.
25. The exterior sideview mirror assembly of claim 24, wherein said main plano mirror element has an X-axis and a Y-axis and wherein, when disposed at said second portion of said mirror backing plate	See discussion of element ss above, which is incorporated herein by reference.

element, the principal axis of said second auxiliary field of view of said auxiliary non-plano curved mirror element is at least one of (a) tilted downward with respect to the Y-axis of said main plano mirror element by an angle that is the range from about 0.75 degrees to about 5 degrees and (b) tilted forwardly with respect to the X-axis of said main plano mirror element by an angle that is the range from about 0.75 degrees to about 5 degrees.