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5 element 50 of plano-multiradius reflective element assembly 30 is positioned closer to the driver than side D of multiradius element 55 when plano-multiradius reflective element assembly 30 is mounted on an automobile. Also, when mounted into exterior side view mirror assembly 12 and/or 14, surfaces 66, 68 of plano-multiradius reflective element assembly 30 face rearwardly in terms of the direction of vehicle travel.

10 Multiradius element 55 of plano-multiradius reflective element assembly 30 preferably comprises a curved/bent mirrored glass substrate. The degree of curvature preferably increases (and hence the local radius of curvature decreases) across the surface of multiradius element 55 with the least curvature (largest radius of curvature) occurring at the side of multiradius element 55 (side C in FIG. 3) positioned adjacent its joint to plano element 50 when both are mounted on backing plate element 60. Thus, and referring to FIG. 3, the local radius of curvature at side C of multiradius element 55, when mounted on  
15 backing plate element 60, is larger than at side D. Also, the local radius of curvature preferably progressively decreases across multiradius element 55 from side C to side D. Preferably, the local radius of curvature at side C of multiradius element 55 is at least about 1000 mm; more preferably is at least about 2000 mm and most preferably is at least about 3000 mm whereas the local radius of curvature at side D of multiradius element 55 is,  
20 preferably, less than about 750 mm, more preferably less than about 350 mm; most preferably less than about 150 mm. Preferably, multiradius element 55 comprises a bent glass substrate with radii of curvature in the range of from about 4000 mm to about 50 mm. The multiradius prescription for the multiradius element to be used in a particular exterior mirror assembly can vary according to the specific field of view needs on a specific automobile model.

25 The total field of view rearwardly of the automobile of the plano-auxiliary reflective element assembly (which is a combination of the field of view of the plano reflective element and of the auxiliary reflective element) preferably generally subtends an angle of at least about 20° (and more preferably, generally subtends an angle of at least about 25° and most preferably, generally subtends an angle of at least about 30°) with respect to the  
30 side of an automobile to which is attached an exterior sideview mirror assembly equipped with the plano-auxiliary reflective element assembly.

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substrate coated with a metallic reflector coating such as a chromium coating, a titanium  
5 coating, a rhodium coating, a metal alloy coating, a nickel-alloy coating, a silver coating, an  
aluminum coating (or any alloy or combination of these metal reflectors). The metal reflector  
coating of multiradius element 55 may be a first surface coating (such as on surface 68) or a  
second surface coating (such as on surface 69), as such terms are known in the mirror art.  
The reflector coating on multiradius element 55 may also comprise a dielectric coating, or a  
10 multilayer of dielectric coatings, or a combination of a metal layer and a dielectric layer to  
form automotive mirror reflectors as known in the automotive mirror art. If a variable  
reflectance reflector element, multiradius element 55 preferably comprises an electro-optic  
reflector element and, most preferably, an electrochromic reflector element.

Also, it is preferable that the thickness of plano element 50 and multiradius  
15 element 55 be substantially the same in dimension so that their respective outer surfaces, 66  
and 68, are substantially coplanar so that a driver can readily view images in either or both  
elements. The thickness dimension of elements 50, 55 is determined by the thickness of the  
substrate (or in the case of laminate-type electrochromic reflective elements, the thickness of  
the two substrates between which the electrochromic medium is disposed). For example,  
20 plano element 50 and/or multiradius element 55 can comprise a reflector coated glass  
substrate or panel of thickness preferably equal to or less than about 2.3 mm, more preferably  
equal to or less than about 1.6 mm, most preferably equal to or less than about 1.1 mm. Use  
of a thinner substrate is beneficial in terms of improving the overall stability/vibration  
performance of the image seen in plano-multiradius reflective element assembly 30 when  
25 mounted to an automobile.

The reflector area of plano element 50 is preferably larger than that of  
multiradius element 55. Preferably, the width dimension of plano element 50 is larger than  
the width dimension of multiradius element 55 (both width dimensions measured at their  
respective widest dimension and with the width of the respective element being gauged with  
30 the respective element oriented as it would be orientated when mounted on the automobile).  
Thus, and referring to FIG. 3, the distance from side A to side B of plano element 50 is larger  
than the distance from side C to side D of multiradius element 55. Thus, the ratio of the



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plate element to plano element 50 and multiradius element 55 (along with any other elements such as the demarcation element 65) in a single integral molding operation, is a preferred  
5 fabrication process for plano-multiradius reflective element assembly 30.

Plano-multiradius reflective element assembly 30 further preferably includes demarcation element 65 that functions to delineate and demarcate the plano region of the assembly from the wide-angle, multiradius region and also preferably functions to prevent  
10 ingress of debris, dirt, water and similar contaminants (such as road splash, car wash spray, rain, snow, ice, leaves, bugs and similar items that plano-multiradius reflective element assembly 30 would be subject to when mounted and used on an automobile) into any gap between plano element 50 and multiradius element 55 when both are attached to backing  
plate element 60. Optionally, at least a portion of demarcation element 65 can be disposed in any gap between plano element 50 and multiradius element 55 at their joint on backing plate  
15 element 60. Preferably, demarcation element 65 is formed of a polymeric material that is dark colored (such as black or dark blue or dark brown or dark grey or a similar dark color) such as a dark colored polypropylene resin or a dark colored nylon resin or a dark colored polyurethane resin or a dark colored polyvinyl chloride resin or a dark colored silicone material. Most preferably demarcation element 65 is formed of an at least partially  
20 elastomeric material (such as silicone, or EPDM, or plasticized PVC or the like) in order to provide a degree of vibration dampening for elements 50, 55. As shown in FIG. 4, demarcation element 65 optionally includes a crown portion 70 that includes wing portions 73, 73' and a stem portion 71. Stem portion 71 preferably has a cross-sectional width CCC of less than about 4 mm, more preferably less than about 3 mm and, most preferably less than  
25 about 2 mm. Crown portion 70 preferably is dimensioned to not protrude substantially beyond surfaces 66, 68 of elements 50, 55 when demarcation element 65 is installed between elements 50 and 55. Also, wings 73, 73' are preferably dimensioned to protrude (most preferably slightly) onto surfaces 66, 68 of elements 50, 55 when demarcation element 65 is installed between elements 50 and 55 in order to provide a weather barrier seal and/or to at  
30 least partially accommodate any dimensional tolerances of elements 50, 55 that could lead to variation in the inter-element gap between sides C and B. While the demarcation element shown in FIG. 4 is one embodiment, other constructions are possible including a demarcation

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