

EXHIBIT 1036

WO 94/19212 TO SCHOFIELD

(“SCHOFIELD ‘212”)

TRW Automotive U.S. LLC: EXHIBIT 1036  
PETITION FOR *INTER PARTES* REVIEW  
OF U.S. PATENT NUMBER 8,599,001  
IPR2015-00436

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Publication	Title	Page
WO9419212 (A2)	AUTOMATIC REARVIEW MIRROR AND VEHICLE...	2

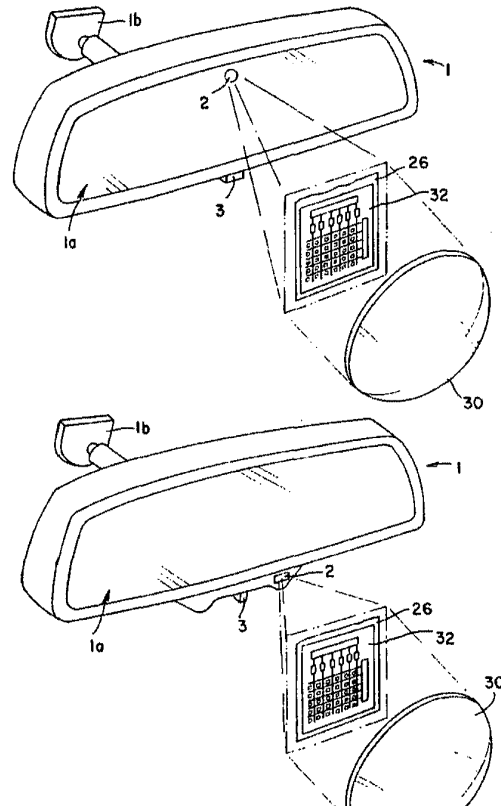
## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification<sup>5</sup> : <b>B60R 1/08</b></p>	<p><b>A2</b></p>	<p>(11) International Publication Number: <b>WO 94/19212</b></p> <p>(43) International Publication Date: 1 September 1994 (01.09.94)</p>
<p>(21) International Application Number: PCT/US94/01954</p> <p>(22) International Filing Date: 25 February 1994 (25.02.94)</p> <p>(30) Priority Data: 08/023,918 26 February 1993 (26.02.93) US</p> <p>(60) Parent Application or Grant (63) Related by Continuation US 08/023,918 (CIP) Filed on 26 February 1993 (26.02.93)</p> <p>(71) Applicant (for all designated States except US): DONNELLY CORPORATION [US/US]; 414 East Fortieth Street, Holland, MI 49423 (US).</p> <p>(72) Inventors; and (75) Inventors/Applicants (for US only): SCHOFIELD, Kenneth [GB/US]; 4793 Crestridge Court, Holland, MI 49423 (US). LARSON, Mark [US/US]; 13873 Oakwood Circle, Grand Haven, MI 49417 (US).</p> <p>(74) Agents: FITZPATRICK, Joseph, M. et al.; Fitzpatrick, Cella, Harper &amp; Scinto, 277 Park Avenue, New York, NY 10172 (US).</p>	<p>(81) Designated States: AT, BR, CH, DE, DK, ES, GB, JP, KR, LU, NL, PT, SE, US, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LÜ, MC, NL, PT, SE).</p> <p><b>Published</b> <i>Without international search report and to be republished upon receipt of that report.</i></p>	

(54) Title: AUTOMATIC REARVIEW MIRROR AND VEHICLE INTERIOR MONITORING SYSTEM USING A PHOTSENSOR ARRAY

## (57) Abstract

A system apparatus, means and method for controlling variable reflectance mirrors in response to drive voltages applied thereto, and for monitoring a vehicle interior. The system includes a light sensing device and a control circuit (26). The light sensing device comprises a photosensor array (32) having a field of view encompassing a vehicle interior. The logic and control circuit (34) determines a background light signal indicative of light levels incident on the photosensor elements and determines a peak light signal in three different zones or sub-arrays of the photosensor array. The peak light signals and a common background light signal are used to determine control signals for independently controlling the reflectance level of a plurality of mirrors (4, 5), or alternatively the segments of a mirror. The logic and control circuit (34) also determines a vehicle intrusion condition and stores image data in memory in the compartment image data storage mode of the vehicle interior monitoring system.



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- 1 -

TITLE

AUTOMATIC REARVIEW MIRROR AND  
VEHICLE INTERIOR MONITORING SYSTEM  
5 USING A PHOTSENSOR ARRAY

This application is a continuation-in-part of  
co-pending U.S. Patent Application Ser. No. 08/023,918,  
10 filed Feb. 26, 1993

BACKGROUND OF THE INVENTION

Field of the Invention

15 This invention relates to an automatic rearview mirror  
system for automotive vehicles which automatically  
changes reflectance level in response to glare causing  
light, and more particularly relates to an improved  
automatic rearview mirror system using only a  
20 rearwardly facing sensor. This invention further  
relates to an automatic rearview mirror and vehicle  
interior monitoring system for automotive vehicles  
which also monitors a vehicle interior or compartment.  
This invention further relates to an automatic rearview  
25 mirror and vehicle interior monitoring system for  
automotive vehicles which may also be used as a vehicle  
intrusion detection system or as a compartment image  
data storage system.

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