

Title (en)
SIGNALING DEVICE FOR DISPLAYING WARNING SIGNALS AND/OR INFORMATION IN VEHICLES

Title (de)
SIGNALISIERVORRICHTUNG ZUR ANZEIGE VON WARN- UND/ODER INFORMATIONSHINWEISEN IN FAHRZEUGEN

Title (fr)
DISPOSITIF DE SIGNALISATION SERVANT A AFFICHER DES INDICATIONS DE TYPE AVERTISSEMENTS ET/OU INFORMATIONS DANS DES VEHICULES

Publication
EP 1735655 A1 20061227 (DE)

Application
EP 05716805 A 20050225

Priority
• EP 2005050813 W 20050225
• DE 102004016808 A 20040406

Abstract (en)
[origin: WO2005101092A1] The invention relates to a signaling device (1) for displaying and/or outputting warning signals and/or information in vehicles by means of optical and/or acoustic signal sources. According to the invention, a signal provided for example by a collision avoidance system, is used to output direction-related information for the driver of a vehicle. Said information is connected with an event related to a certain object to which event attention is to be drawn. Figure 1 is a schematic representation of the top view of a signaling device (1) comprising a vehicle windshield (2) and display elements (4) distributed therein, and an enlarged detail drawing (10) in a sectional side view of a display element (4a) arranged in the vehicle windshield (2). The right-hand portion of Figure 1 shows the top view of the vehicle windshield (2) across a substantial part (3) of which display elements (4) are distributed. Only the display element (4a) is active. For this purpose, a light beam is guided, starting from a fiber-optical waveguide (5), onto the display element (4) which becomes visible to the driver of the vehicle due to the illumination by the light beam. The remaining display elements (4) are invisible to the driver of the vehicle. The vehicle windshield (2), in this drawing, is configured as a two-layer laminated windshield between the two parts (2, 2) of which both the display elements (4) and the fiber-optical waveguides (5) are arranged.

IPC 8 full level
G02B 27/01 (2006.01); **G09F 9/30** (2006.01); **G09F 21/04** (2006.01); **G02B 6/00** (2006.01)

CPC (source: EP US)
B32B 17/10036 (2013.01 - EP US); **B32B 17/10541** (2013.01 - EP US); **B60K 35/00** (2013.01 - EP US); **B60K 35/60** (2024.01 - EP); **B60Q 9/00** (2013.01 - EP US); **G02B 27/0103** (2013.01 - EP US); **G09F 21/04** (2013.01 - EP US); **G09F 21/049** (2020.05 - EP US); **B60K 35/60** (2024.01 - US); **B60K 2360/338** (2024.01 - EP US); **B60K 2360/785** (2024.01 - EP US); **G02B 6/00** (2013.01 - EP US)

Citation (search report)
See references of WO 2005101092A1

Designated contracting state (EPC)
DE FR GB IT SE

DOCDB simple family (publication)
WO 2005101092 A1 20051027; CN 100465696 C 20090304; CN 1938633 A 20070328; DE 102004016808 A1 20051027; EP 1735655 A1 20061227; US 2007210906 A1 20070913

DOCDB simple family (application)
EP 2005050813 W 20050225; CN 200580010834 A 20050225; DE 102004016808 A 20040406; EP 05716805 A 20050225; US 54777105 A 20050225