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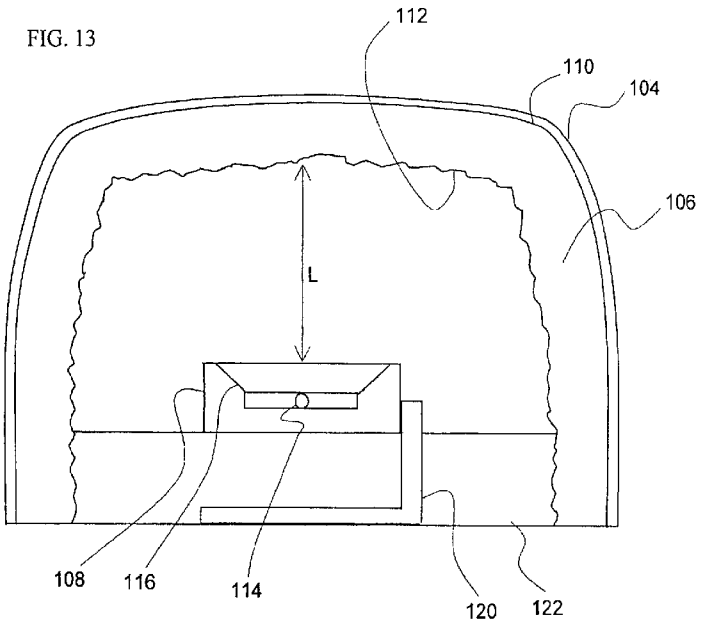
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(54) Title: BI-COLOR ILLUMINATED EMBLEM

FIG. 13



(57) Abstract: A bi-color illuminated emblem includes a metal-look portion having a metal look layer, a substrate layer that supports the metal look layer, and a plurality of illuminating elements. The metal look layer and the substrate layer pass light from the illuminating elements. The illuminating elements emit light within a predetermined emission angle, which is 120 degree. The substrate layer is made of semi-transparent ABS. The substrate layer comprises an outer surface which supports the metal look layer, and an inner surface that faces the illuminating elements and has coarse texture that causes scattering of light. The distance between the inner surface of the substrate layer and the illuminating elements is in a range from 7~ 10 mm. The illuminating element comprises an LED and a light guiding element that guides the light from the LED emits throughout and within the predetermined angle.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2009/038114

A. CLASSIFICATION OF SUBJECT MATTER

B60R 13/04(2006.01)i, B60Q 1/30(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 8: B60R, G09F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models since 1975

Japanese utility models and applications for utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & keywords: "LED, emblem, and similar terms"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 05249104 A (TATSUJI MIZOBE) 28 September 1993 See columns 1-6, figures 1-6.	1-19
Y	US 04977695 A (JOSEPH M. ARMBRUSTER) 18 December 1990 See columns 1-6, figures 1-6.	1-19
A	JP 07-234650 A (YAMAHA MOTOR CO., LTD.) 05 September 1995 See the whole document.	1-19
A	JP 2005-215596 A (SAKAE RIKEN KOGYO CO., LTD.) 11 August 2005 See the whole document.	1-19

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 05249104 A	28.09.1993	US 05641219 A US 05057974 A	24.06.1997 15.10.1991
US 04977695 A	18.12.1990	None	
JP 07-234650 A	05.09.1995	None	
JP 2005-215596 A	11.08.2005	None	