

Title (en)

Optical signaler, specially at the control panel of a house appliance

Title (de)

Optischer Signalgeber, insbesondere für die Bedienblende eines Haushaltsgrossgerätes

Title (fr)

Signalisateur optique, particulièrement pour le panneau de commande d'un appareil électroménager

Publication

EP 1378881 B2 20180725 (DE)

Application

EP 03014342 A 20030626

Priority

DE 10230023 A 20020704

Abstract (en)

[origin: EP1378881A2] The signal emitter has a light guide (13) extending from an emitting end (29) in the direction of a light source arranged on a circuit board, spaced apart from the emitting end. The emitting end of the light guide (13) passes through an opening in the bottom of a cover, and is held in front of the light source in a hollow base supporting the cover. Light guides of variable lengths are surrounded by covers of variable heights and/or bases of variable lengths.

IPC 8 full level

G09F 9/302 (2006.01); **G02B 6/00** (2006.01); **G09F 9/30** (2006.01); **G09F 9/305** (2006.01)

CPC (source: EP)

G09F 9/30 (2013.01); **G09F 9/302** (2013.01); **G09F 9/3023** (2013.01); **G09F 9/305** (2013.01)

Citation (opposition)

Opponent :

- DE 29613798 U1 19961107 - MENTOR GMBH & CO PRAEZISIONS B [DE]
- DE 3704574 A1 19870820 - YAZAKI CORP [JP]
- DE 9212999 U1 19921203
- DE 10112640 C1 20021219 - DIEHL AKO STIFTUNG GMBH & CO [DE]

Cited by

CN103021308A

Designated contracting state (EPC)

DE ES FR IT TR

DOCDB simple family (publication)

DE 20306622 U1 20031120; DE 10230023 A1 20040122; DE 10230023 B4 20040916; DE 10230023 C5 20101223; DE 50312735 D1 20100708; EP 1378881 A2 20040107; EP 1378881 A3 20061102; EP 1378881 B1 20100526; EP 1378881 B2 20180725; ES 2346414 T3 20101015; ES 2346414 T5 20181205

DOCDB simple family (application)

DE 20306622 U 20030429; DE 10230023 A 20020704; DE 50312735 T 20030626; EP 03014342 A 20030626; ES 03014342 T 20030626