

Title (en)

DISPLAY DEVICE FOR THE REPRODUCTION OF SIGNS AND SYMBOLS

Publication

EP 0199039 A3 19880727 (DE)

Application

EP 86103127 A 19860308

Priority

- DE 3510870 A 19850326
- DE 3529977 A 19850822

Abstract (en)

[origin: US4783920A] A display device for the reproduction of characters and symbols including light sources in the form of incandescent lamps or lightbulbs, which are arranged in close proximity to each other on a substrate, such as a display device for moving illuminated writing, illuminated area or field, luminescent boards, marquees, or the like. Apertures are provided in a preselected pattern in the substrate, into which there are inserted reflectors at the front side thereof, and which respectively receive in their central rearwardly directed reflector necks, insertable incandescent lamp holders or sockets; with electrical contact terminals arranged at the end thereof. Hereby, annular or ring-shaped members can be positioned in the apertures, and which extend at right angles from the substrate, into which there are inserted from at the front side thereof, the reflectors with fixedly superimposed light distributor caps. At their end surfaces, the reflectors can each possess a radially outwardly curved collar, which lies with its inner annular surface against the projecting end surface of the ring-shaped member, and with its external annular surface receives the face plate of the light distributor cap, whose cylindrical ring which is integrally formed therewith is superimposed over the ring-shaped member.

IPC 1-7

G09F 13/28

IPC 8 full level

G09F 13/28 (2006.01)

CPC (source: EP US)

G09F 13/28 (2013.01 - EP US)

Citation (search report)

- [X] US 3197630 A 19650727 - DUMDEI ALFRED F
- [A] FR 611969 A 19261014
- [A] GB 1107964 A 19680327 - GEN ELECTRIC

Cited by

DE19644126B4; FR2664726A1; WO9201279A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0199039 A2 19861029; EP 0199039 A3 19880727; US 4783920 A 19881115

DOCDB simple family (application)

EP 86103127 A 19860308; US 84312186 A 19860324