

Title (en)

Display device.

Title (de)

Anzeigevorrichtung.

Title (fr)

Dispositif d'affichage.

Publication

EP 0491156 B1 19950823 (DE)

Application

EP 91119148 A 19911111

Priority

DE 4040567 A 19901219

Abstract (en)

[origin: EP0491156A2] The invention relates to a display device having a multiplicity of display points, in which each display point is formed by the front-side end of an illuminable optical fibre. The number of the display points for a large-area display that is viewed from a great distance can be substantially reduced by arranging to fix in a display panel in front of each end of an optical fibre a light collector which has a round and larger cross-section than the cross-section of the optical fibre, forms a section convexly curved with a prescribed radius where it faces the end of the optical fibre, and is provided where it is averted from the end of the optical fibre with a rotating phase which is at a prescribed angle to the central axis of the display point, and by arranging that the light collector projects on the display panel with the section formed by the phase, and that the front side of the light collector averted from the end of the optical fibre is roughened.

IPC 1-7

G09F 9/30; **G02B 6/36**; **G02B 5/02**; **G09F 9/37**

IPC 8 full level

G02B 5/02 (2006.01); **G02B 6/36** (2006.01); **G09F 9/30** (2006.01); **G09F 9/305** (2006.01); **G09F 9/37** (2006.01)

CPC (source: EP)

G09F 9/305 (2013.01)

Cited by

NL9301884A

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0491156 A2 19920624; **EP 0491156 A3 19920805**; **EP 0491156 B1 19950823**; AT E126915 T1 19950915; CA 2057949 A1 19920620; CA 2057949 C 19990105; DE 4040567 C1 19920617; DE 59106313 D1 19950928

DOCDB simple family (application)

EP 91119148 A 19911111; AT 91119148 T 19911111; CA 2057949 A 19911218; DE 4040567 A 19901219; DE 59106313 T 19911111