

Title (en)

OPTICAL DISTRIBUTION SYSTEM INCLUDING LIGHT GUIDE.

Title (de)

OPTISCHES VERTEILUNGSSYSTEM EINEN LICHTLEITER ENTHALTEND.

Title (fr)

SYSTEME DE DISTRIBUTION OPTIQUE AVEC GUIDE DE LUMIERE.

Publication

EP 0118422 A4 19841211 (EN)

Application

EP 82902785 A 19820809

Priority

US 8201076 W 19820809

Abstract (en)

[origin: WO8400800A1] A flexible transmitting guide (1) has a substantially transparent semi-solid core (3) to which is shrink-fitted, or otherwise tightly clad, a transparent or translucent sleeve (2) which is designed to laterally diffuse, disperse or refract a substantial component of light away from the core (3) as it traverses the length of the guide (1). Thus, the clad core appears bright along its length and functions as a primary light source. In modifications of the device, the lateral dispersion of light passing along the core (3) is enhanced by interposing cuts or discontinuities (7) at intervals along its surface, or by providing a sleeve (2) comprising an emulsion of light-reflecting particles (8). The light source (4) may be adjacent to or separated from the core (3) and may comprise either a steady state, or pulsating source, ahead of which colored filters may be inserted, if desired. Numerous indoor and outdoor applications are contemplated for light guides in accordance with the present invention, including signs (24), safety vests (19) for traffic policemen, lighted canes (28) for the disabled, lights for instrument panels (35), safety lights for vehicles (31) and ships, and lights for interior and exterior decoration.

IPC 1-7

F21V 7/04; **G02B 5/14**

IPC 8 full level

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CPC (source: EP)

G02B 6/001 (2013.01)

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- [X] DE 2617431 A1 19771103 - ELMED DR ING MENSE KG
- [E] EP 0069977 A2 19830119 - MORI KEI

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WO 8400800 A1 19840301; AU 558277 B2 19870122; AU 8908882 A 19840307; EP 0118422 A1 19840919; EP 0118422 A4 19841211; JP S59501598 A 19840906

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