

Title (en)
OPTICAL FIBRE ILLUMINATED DISPLAY SCREEN, OR THE LIKE, WITH INFORMATIVE OR DECORATIVE CONTENT, AND METHOD FOR MAKING SAME

Title (de)
FASEROPTISCHER LEUCHTSCHIRM ODER VERGLEICHBARES GERÄT MIT ENHALTENER INFORMATION ODER DEKORATION SOWIE ZUGEHÖRIGES HERSTELLUNGSVERFAHREN

Title (fr)
ECRAN LUMINEUX A FIBRES OPTIQUES, OU ANALOGUE, A CONTENU INFORMATIF OU DECORATIF, ET SON PROCEDE DE FABRICATION

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Abstract (en)
[origin: WO0188431A1] The invention concerns an illuminated display screen consisting of at least a light conductor such as a punctually treated or modified optical fibre for generating in each point of modification a lateral luminous discharge when the fibre is illuminated from one end called fibre source. The invention is globally characterised in that in that the number of modifications in a given surface is proportional to the brightness of said surface and to the number of modifications present on said fibre upstream relative to the direction of light propagation. Preferably, a grey level of said zone is defined by the surface of a spot (S1, S2, S3), of said zone having received, through a first mask or stencil, the modifications, while the density of the modifications of a marginal downstream part of a spot of an upstream zone is substantially less than the density of modifications in the marginal upstream part of a spot of a downstream zone immediately proximate to the conductor in the direction of light propagation in said conductor. In cases where the modifications have a constant topical density, the grey level can be determined by a second stencil whereof the orifices have an increasing surface in the direction of light propagation. The conductor itself can consist, either of a fabric, or an elongated plate made of a material having an optical fibre structure. The invention also concerns a method for making such a display screen.

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