

Title (en)
LUMINAIRE DEVICE

Title (de)
BELEUCHTUNGSVORRICHTUNG

Title (fr)
DISPOSITIF D'ECLAIRAGE

Publication
EP 0953130 A2 19991103 (EN)

Application
EP 98903472 A 19980113

Priority
• US 9800632 W 19980113
• US 78321297 A 19970113

Abstract (en)
[origin: WO9833006A2] An optical device for collecting light and selectively outputting or concentrating the light. A layer has an optical index of refraction n_1 , and top, bottom and side surfaces defining an angle of inclination ϕ . A back surface spans the top, bottom and side surface. A first layer is coupled to the bottom surface of the layer and has an index of refraction n_2 . The first layer index n_2 causes light input through the back surface of the layer to be preferentially output into the first layer. A second layer is coupled to the bottom of the first layer and selectively causes output of light into ambient. Additional layers, such as a light polarization layer, a polarization converting layer and a post LCD diffuser layer can be used to make preferential use of polarized light of diffuse light having passed through the LCD layer to enhance viewing of the output light.

IPC 1-7
F21V 8/00

IPC 8 full level
G02B 6/00 (2006.01); **F21V 8/00** (2006.01); **G02B 27/28** (2006.01); **G02F 1/1335** (2006.01); **G02F 1/13357** (2006.01); **G09F 9/00** (2006.01); **G09F 19/12** (2006.01)

CPC (source: EP KR)
G02B 6/0016 (2013.01 - EP); **G02B 6/0038** (2013.01 - EP); **G02B 6/0053** (2013.01 - EP KR); **G02B 6/0056** (2013.01 - EP KR); **G02F 1/133615** (2013.01 - KR); **G02F 1/13362** (2013.01 - KR); **G02B 6/0031** (2013.01 - EP); **G02F 1/13362** (2013.01 - EP)

Cited by
CN111487707A; US10036517B2

Designated contracting state (EPC)
DE FR GB NL

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US 9800632 W 19980113; AU 6023698 A 19980113; CA 2280085 A 19980113; EP 98903472 A 19980113; JP 2008121710 A 20080507; JP 53202298 A 19980113; KR 19997006337 A 19990713