

Title (en)
LUMINAIRE DEVICE

Title (de)
BELEUCHTUNGSVORRICHTUNG

Title (fr)
DISPOSITIF D'ECLAIRAGE

Publication
EP 0953130 A4 20000105 (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
F21V 8/00 (2006.01); **G02B 6/00** (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)

Citation (search report)
• [X] WO 9527915 A1 19951019 - NIOPTICS CORP [US]
• See references of WO 9833006A2

Cited by
CN111487707A; US10036517B2

Designated contracting state (EPC)
DE FR GB NL

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WO 9833006 A2 19980730; **WO 9833006 A3 19981001**; AU 6023698 A 19980818; CA 2280085 A1 19980730; CA 2280085 C 20060606; EP 0953130 A2 19991103; EP 0953130 A4 20000105; JP 2001508590 A 20010626; JP 2008270222 A 20081106; JP 4163259 B2 20081008; JP 4642873 B2 20110302; KR 100573634 B1 20060426; KR 20000070114 A 20001125

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