

Title (en)
BACKLIGHT WITH STRUCTURED SUFACES

Title (de)
RÜCKBELEUCHTUNG MIT STRUKTURIERTEN OBERFLÄCHEN

Title (fr)
RETROECLAIRAGE A SURFACES STRUCTUREES

Publication
EP 1301743 A2 20030416 (EN)

Application
EP 01953417 A 20010705

Priority
• US 0121294 W 20010705
• US 61331300 A 20000711

Abstract (en)
[origin: WO0204858A2] A backlight includes a lightguide, a light source disposed with respect to the lightguide to introduce light into the lightguide and a turning film. Optical structures are formed in one of an output surface and a back surface of the lightguide. The optical structures are arranged to extract light from the lightguide. A back reflector is disposed adjacent the back surface. The optical structures are formed to include a varying pattern arranged to mask non-uniformities in the output of the lightguide.
[origin: WO0204858A2] A backlight includes a lightguide (16), a light source (12) disposed with respect to the lightguide (16) to introduce light into the lightguide (16) and a turning film. Optical structures (40) are formed in one of an output surface (18) and a back surface (20) of the lightguide (16). The optical structures (40) are arranged to extract light from the lightguide (16). A back reflector (24) is disposed adjacent the back surface (20). The optical structures (40) are formed to include a varying pattern arranged to mask non-uniformities in the output of the lightguide (16).

IPC 1-7
F21V 8/00

IPC 8 full level
G02B 6/00 (2006.01); **F21V 8/00** (2006.01); **G02F 1/13357** (2006.01); **F21Y 103/00** (2006.01)

CPC (source: EP KR)
G02B 6/0036 (2013.01 - EP); **G02B 6/0038** (2013.01 - EP); **G02B 6/0061** (2013.01 - EP); **G02F 1/1335** (2013.01 - KR);
G02B 6/0071 (2013.01 - EP)

Citation (search report)
See references of WO 0204858A2

Citation (examination)
US 5854872 A 19981229 - TAI CHEN-YU [US]

Cited by
US8615912B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0204858 A2 20020117; **WO 0204858 A3 20020523**; AU 2001275868 B2 20060202; AU 2001275868 B8 20060511; AU 7586801 A 20020121; CA 2413700 A1 20020117; CA 2413700 C 20070109; CN 100350308 C 20071121; CN 1464955 A 20031231; EP 1301743 A2 20030416; HK 1056210 A1 20040206; JP 2004507866 A 20040311; KR 100830261 B1 20080516; KR 20030015378 A 20030220

DOCDB simple family (application)
US 0121294 W 20010705; AU 2001275868 A 20010705; AU 7586801 A 20010705; CA 2413700 A 20010705; CN 01812770 A 20010705; EP 01953417 A 20010705; HK 03106684 A 20030917; JP 2002509691 A 20010705; KR 20037000339 A 20030110