Title (en)

TRANSPARENCY AND BACKLIGHT FOR CINEMA SCREEN

Title (de)

FOLIE UND RÜCKLICHT FÜR EINE KINOLEINWAND

Title (fr)

TRANSPARENCE ET LUMIÈRE ARRIÈRE D'ÉCRAN DE CINÉMA

Publication

EP 2193402 A1 20100609 (FR)

Application

EP 07858377 A 20070924

Priority

FR 2007001550 W 20070924

Abstract (en)

[origin: WO2009040480A1] Cinema screens are made of a perforated cloth for letting the sound through, with a thick texture that reflects the direct light of the projector. Two assessed natural phenomena force us to take into account that, first, all objects absorb a portion of the light and reject the visible non-absorbed colours and, second, ambient light flows in from all sides, including the back of the object, with all incidence degrees of light diffractions reflected therein. These two facts motivated the present patent application. Practically, the use of a light source behind the screen re-establishes a natural light balance that does not exist on the current cinema screens. The principle of a light source behind the screen adds a contre-jour effect that is important for the light quality of images in order to obtain an image vision without saturation and a natural balance of the colours and the perspectives of the objects shapes. Indeed, the stable back light brings a visual comfort and a chromatic stability that vary without excess. Chromatics and light density are adjusted by this principle using a translucent bottom layer, and provides a projection suitable for the optical sensitivity of the eye and the nervous system, which makes the projection non-aggressive for the entire audio-visual realm.

IPC 8 full level

G03B 21/56 (2006.01)

CPC (source: EP US)

G03B 21/565 (2013.01 - EP US)

Citation (search report)

See references of WO 2009040480A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

WO 2009040480 A1 20090402; EP 2193402 A1 20100609; US 2010290113 A1 20101118; US 8040603 B2 20111018

DOCDB simple family (application)

FR 2007001550 W 20070924; EP 07858377 A 20070924; US 67983310 A 20100702