

Title (en)
Illuminous sole

Title (de)
Beleuchtete Sohle

Title (fr)
Semelle lumineuse

Publication
EP 2774501 A1 20140910 (EN)

Application
EP 13159986 A 20130319

Priority
TW 102203932 U 20130304

Abstract (en)
An illuminous sole (10) is configured with a sole body (20) and electronic device (30). The sole body (20) defines a compartment (25) and a transparent portion (26) surrounding the compartment (25). The transparent portion (26) has an external side (262) and an internal side (264) which having a plurality of reflecting surfaces (264b). The electronic device (30) is arranged within the compartment (25) and includes at least a first light-emitting device (34). Portion of the light beam projected from the first light emitting device (34) is directed outward from the outer side of the transparent portion (26) after the portion of light beam is redirected by the reflecting surfaces (264b). By this arrangement, the light beam from the first light-emitting device (34) is redirected and broadened to cover wider scope and range. In addition, interweaving of the light beams creates more brighter and colorful effect.

IPC 8 full level
A43B 1/00 (2006.01); **A43B 13/00** (2006.01); **A43B 3/00** (2006.01); **F21V 7/00** (2006.01)

CPC (source: EP US)
A43B 1/0072 (2013.01 - EP US); **A43B 3/36** (2022.01 - EP US); **A43B 13/00** (2013.01 - EP US)

Citation (applicant)
• TW M408261 U 20110801 - XU ZHENG-ZHONG [TW]
• US 2012192462 A1 20120802 - HSU CHENG-CHUNG [TW]

Citation (search report)
• [X] US 5930921 A 19990803 - SOROFMAN HOWARD [US], et al
• [X] US 5237760 A 19930824 - ALTMAN PETER R [US], et al
• [X] WO 9415494 A1 19940721 - IDEA INC [US], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2774501 A1 20140910; JP 3184116 U 20130613; TW M455385 U 20130621; US 2014247581 A1 20140904

DOCDB simple family (application)
EP 13159986 A 20130319; JP 2013001840 U 20130402; TW 102203932 U 20130304; US 201313842652 A 20130315