

Title (en)
IMPROVING OPTICAL SENSING PERFORMANCE OF UNDER-SCREEN OPTICAL SENSOR MODULE FOR ON-SCREEN FINGERPRINT SENSING

Title (de)
VERBESSERUNG DER LEISTUNG DER OPTISCHEN ERFASSUNG EINES OPTISCHEN SENSORMODUL UNTER DEM BILDSCHIRM ZUR FINGERABDRUCKERFASSUNG AUF DEM BILDSCHIRM

Title (fr)
AMÉLIORATION DES PERFORMANCES DE DÉTECTION OPTIQUE D'UN MODULE DE CAPTEUR OPTIQUE SOUS-ÉCRAN POUR DÉTECTION D'EMPREINTE DIGITALE SUR ÉCRAN

Publication
EP 3440594 A4 20190925 (EN)

Application
EP 18735868 A 20180104

Priority

- US 201762442387 P 20170104
- US 201762452938 P 20170131
- US 201715616856 A 20170607
- CN 2018071400 W 20180104

Abstract (en)
[origin: WO2018127101A1] Devices and optical sensor modules are provided for provide on-screen optical sensing of fingerprints by using a under-screen optical sensor module that captures and detects returned light that is emitted by the display screen for displaying images and that is reflected back by the top surface of the screen assembly. Optical collimators(2106) are provided in the under-screen optical sensor module to enhance the optical imaging performance. Techniques for reducing the environmental light in the optical sensing are provided.

IPC 8 full level
G06K 9/00 (2006.01)

CPC (source: EP)
G06V 40/1318 (2022.01); **G06V 40/1394** (2022.01); **H10K 59/40** (2023.02)

Citation (search report)

- [X] US 2016254312 A1 20160901 - LEE YOUNG SEEN [US], et al
- [I] US 2014218327 A1 20140807 - SHI WEIDONG [US], et al
- [I] US 2013120760 A1 20130516 - RAGUIN DANIEL H [US], et al
- See also references of WO 2018127101A1

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)
WO 2018127101 A1 20180712; CN 109074495 A 20181221; EP 3440594 A1 20190213; EP 3440594 A4 20190925

DOCDB simple family (application)
CN 2018071400 W 20180104; CN 201880001882 A 20180104; EP 18735868 A 20180104