

Title (en)

UNDER-SCREEN OPTICAL SENSOR MODULE FOR ON-SCREEN FINGERPRINT SENSING

Title (de)

OPTISCHES SENSORMODUL UNTER DEM BILDSCHIRM ZUR FINGERABDRUCKERKENNUNG AUF DEM BILDSCHIRM

Title (fr)

MODULE DE CAPTEUR OPTIQUE DE SOUS-ÉCRAN PERMETTANT LA DÉTECTION D'EMPREINTES DIGITALES SUR ÉCRAN

Publication

**EP 3479295 A4 20191204 (EN)**

Application

**EP 17850146 A 20170803**

Priority

- US 201662396153 P 20160917
- US 201662412777 P 20161025
- US 201715421249 A 20170131
- US 201762468337 P 20170307
- US 201715616856 A 20170607
- CN 2017095908 W 20170803

Abstract (en)

[origin: WO2018049944A1] Devices (200) and optical sensor modules (702) are provided for provide on-screen optical sensing of fingerprints by using a under-screen optical sensor module (702) that captures and detects returned light that is emitted by a LCD display screen for displaying images and that is reflected back by the top surface of the screen assembly (423).

IPC 8 full level

**G06K 9/00** (2006.01)

CPC (source: EP US)

**G06F 21/32** (2013.01 - EP US); **G06V 40/1318** (2022.01 - EP US); **G06V 40/1394** (2022.01 - EP)

Citation (search report)

- [XY] US 2003090650 A1 20030515 - FUJIEDA ICHIRO [JP]
- [Y] CN 105094443 A 20151125 - SHENZHEN HUIDING TECHNOLOGY CO & EP 3273329 A1 20180124 - SHENZHEN GOODIX TECH CO LTD [CN]
- [Y] US 2016092718 A1 20160331 - JENSEN ERIC DEAN [US], et al
- [Y] EP 2562683 A1 20130227 - GINGY TECHNOLOGY INC [TW]
- [Y] US 2016224816 A1 20160804 - SMITH PATRICK [US], et al
- [Y] WO 0169520 A2 20010920 - ETHENTICA INC [US]
- See also references of WO 2018049944A1

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 2018049944 A1 20180322**; CN 109791599 A 20190521; CN 109791599 B 20231114; EP 3479295 A1 20190508; EP 3479295 A4 20191204

DOCDB simple family (application)

**CN 2017095908 W 20170803**; CN 201780047331 A 20170803; EP 17850146 A 20170803