(12) International Application Status Report

Received at International Bureau: 16 October 2017 (16.10.2017)
Information valid as of: 08 March 2019 (08.03.2019)
Report generated on: 19 July 2019 (19.07.2019)

(10) Publication number:	**(43) Publication date:**	**(26) Publication language:**
WO2019/061016	04 April 2019 (04.04.2019)	Chinese (ZH)
(21) Application Number:	**(22) Filing Date:**	**(25) Filing language:**
PCT/CN2017/103396	26 September 2017 (26.09.2017)	Chinese (ZH)

(51) International Patent Classification:
G06F 3/041 (2006.01); ***H01L 27/32*** (2006.01)

(71) Applicant(s):
SHENZHEN ROYOLE TECHNOLOGIES CO. , LTD [CN/CN]; Building #43, Dayun Software Town, No. 8288 Longgang Road, Henggang Street, Longgang District Shenzhen, Guangdong 518115 (CN) *(for all designated states)*

(72) Inventor(s):
LI, He; Building #43, Dayun Software Town, No. 8288 Longgang Road, Henggang Street, Longgang District Shenzhen, Guangdong 518115 (CN)

(74) Agent(s):
SCIHEAD IP LAW FIRM; Room 1508, Huihua Commercial & Trade Building No. 80, XianLie Zhong Road, Yuexiu District Guangzhou, Guangdong 510070 (CN)

(54) Title (EN): FLEXIBLE TOUCH SCREEN AND FLEXIBLE DISPLAY DEVICE

(54) Title (FR): ÉCRAN TACTILE SOUPLE ET DISPOSITIF D'AFFICHAGE SOUPLE

(54) Title (ZH): 柔性触摸屏及柔性显示装置

(57) Abstract:

(EN): A flexible touch screen (1) and a flexible display device comprising the flexible touch screen (1). The flexible touch screen (1) comprises a first substrate (210) and a first conductive layer (220) provided on the first substrate (210). The first substrate (210) comprises a first surface (211) and a second surface (212) that are provided opposite to each other. The direction from the first surface (211) to the second surface (212) is a first direction (D1). When the flexible touch screen (1) is bent in the first direction (D1), the first conductive layer (220) is located on the side where the first surface (211) of the first substrate (210) is located, and is subjected to compressive stress or zero stress. The flexible touch screen can effectively improve bending resistance and extend service life.

(FR): L'invention concerne un écran tactile souple (1) et un dispositif d'affichage souple comprenant l'écran tactile souple (1). L'écran tactile souple (1) comprend un premier substrat (210) et une première couche conductrice (220) disposée sur le premier substrat (210). Le premier substrat (210) comprend une première surface (211) et une seconde surface (212) qui sont opposées l'une à l'autre. La direction allant de la première surface (211) à la seconde surface (212) est une première direction (D1). Lorsque l'écran tactile souple (1) est plié dans la première direction (D1), la première couche conductrice (220) est située sur le côté où la première surface (211) du premier substrat (210) est située, et est soumise à une contrainte de compression ou à une contrainte nulle. L'écran tactile souple peut efficacement améliorer la résistance à la flexion et prolonger la durée de vie.

(ZH): 一种柔性触摸屏(1)和包括柔性触摸屏(1)的柔性显示装置。柔性触摸屏(1)包括第一基材(210)及设置在第一基材(210)上的第一导电层(220),第一基材(210)包括相对设置的第一表面(211)及第二表面(212),第一表面(211)至第二表面(212)的方向为第一方向(D1),当柔性触摸屏(1)朝第一方向(D1)弯曲时,第一导电层(220)位于第一基材(210)的第一表面(211)所在的一侧而受到压应力作用或受零应力作用。柔性触摸屏能够有效的提高抗弯折能力,延长使用寿命。

International search report:
Received at International Bureau: 29 June 2018 (29.06.2018) [CN]

International Report on Patentability (IPRP) Chapter II of the PCT:

Not available

(81) Designated States:

AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

European Patent Office (EPO) : AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR

African Intellectual Property Organization (OAPI) : BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG

African Regional Intellectual Property Organization (ARIPO) : BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW

Eurasian Patent Organization (EAPO) : AM, AZ, BY, KG, KZ, RU, TJ, TM