

(12) International Application Status Report

Received at International Bureau: 06 June 2018 (06.06.2018)

Information valid as of: 20 August 2018 (20.08.2018)

Report generated on: 20 April 2019 (20.04.2019)

(10) Publication number:

WO2018/235518

(43) Publication date:

27 December 2018 (27.12.2018)

(26) Publication language:

Japanese (JA)

(21) Application Number:

PCT/JP2018/020020

(22) Filing Date:

24 May 2018 (24.05.2018)

(25) Filing language:

Japanese (JA)

(31) Priority number(s):

2017-123449 (JP)

(31) Priority date(s):

23 June 2017 (23.06.2017)

(31) Priority status:

Priority document received (in compliance with PCT Rule 17.1)

(51) International Patent Classification:

H01H 36/00 (2006.01); **G06F 3/041** (2006.01); **G06F 3/044** (2006.01)

(71) Applicant(s):

KABUSHIKI KAISHA TOKAI RIKI DENKI SEISAKUSHO [JP/JP]; 260, Toyota 3-chome, Ohguchi-cho, Niwa-gun, Aichi 4800195 (JP) (*for all designated states*)

(72) Inventor(s):

ITO, Hajime; c/o KABUSHIKI KAISHA TOKAI RIKI DENKI SEISAKUSHO, 260, Toyota 3-chome, Ohguchi-cho, Niwa-gun, Aichi 4800195 (JP)

(74) Agent(s):

HIRATA & PARTNERS; 6th Floor, Niban-cho Cashew Building, 4-3, Niban-cho, Chiyoda-ku, Tokyo 1020084 (JP)

(54) Title (EN): METHOD FOR MANUFACTURING TOUCH SENSOR

(54) Title (FR): PROCÉDÉ DE FABRICATION DE CAPTEUR TACTILE

(54) Title (JA): タッチセンサの製造方法

(57) Abstract:

(EN): A method for manufacturing a touch sensor 1 includes: bonding a first electrode 3 and a second electrode 4 to each other such that an insulating material 5 is sandwiched therebetween, said first electrode and second electrode being formed of a conductive fiber; and machining the first electrode 3 and/or the second electrode 4 into a predetermined shape, said first electrode and second electrode having been bonded to each other. In the method for manufacturing the touch sensor 1, both the improvement of the degree of freedom of the shapes of the electrodes formed of the conductive fiber, and suppression of the occurrence of failures due to positional displacement and wrinkles can be achieved.

(FR): L'invention concerne un procédé de fabrication d'un capteur tactile (1), comprenant : la liaison d'une première électrode (3) et d'une seconde électrode (4) l'une à l'autre de sorte qu'un matériau isolant (5) soit intercalé entre celles-ci, ladite première électrode et ladite seconde électrode étant formées d'une fibre conductrice ; et l'usinage de la première électrode (3) et/ou de la seconde électrode (4) selon une forme prédéfinie, ladite première électrode et ladite seconde électrode ayant été liées l'une à l'autre. Dans le procédé de fabrication du capteur tactile (1), on peut obtenir à la fois l'amélioration du degré de liberté des formes des électrodes formées de la fibre conductrice et la suppression de l'apparition de défaillances dues au déplacement positionnel et aux rides.

(JA): タッチセンサ 1 の製造方法は、導電性繊維で作られた第 1 の電極 3 及び第 2 の電極 4 で絶縁体 5 を挟むように貼り合せ、貼り合せた第 1 の電極 3 及び第 2 の電極 4 の少なくとも一方を予め定められた形状に加工することを含んでいる。このタッチセンサ 1 の製造方法では、導電性繊維で形成された電極の形状の自由度の向上と位置ずれやしわに起因する不良の発生の抑制を両立することができる。

International search report:

Received at International Bureau: 20 August 2018 (20.08.2018) [JP]

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, 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