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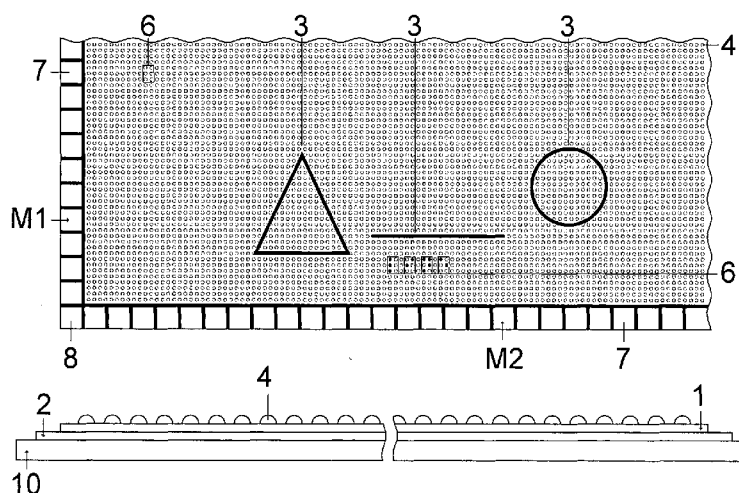
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(54) Title: TOUCH SCREEN OVERLAY FOR THE VISUALLY IMPAIRED AND COMPUTER PROGRAM



Slika 1

(57) Abstract: A gadget for a multimedia management of computing devices enables the blind and the visually impaired to use desktop computers, laptops, tablet PCs, handheld PCs, smart phones and all other mobile computing devices which use a screen that is touch sensitive to communicate with users, and that can convert that touch into vibrations of different intensity or frequency. The program background (5) communicates with users by using colored image contents (3), braille characters, vibrations, sounds, music and spoken words. The gadget of the invention is characterized by having a mechanical accessory in the form of a transparent raster mesh (1), which is spread over a classic touchscreen (2) of a computing device (10) and with it, enables spacial orientation for the blind and the visually impaired persons on an otherwise smooth surface of the screen (2), and with it, gives them the possibility to effectively use any modern, serial-made computing device (10) that can express a multi-point touch with vibrations of different strengths and frequencies, while



GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (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), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

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A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G06F G09G G09B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	RANTALA J ET AL: "Methods for Presenting Braille Characters on a Mobile Device with a Touchscreen and Tactile Feedback", IEEE TRANSACTIONS ON HAPTICS, IEEE, USA, vol. 2, no. 1, 1 January 2009 (2009-01-01), pages 28-39, XP011327929, ISSN: 1939-1412, DOI: 10.1109/TOH.2009.3 the whole document ----- -/--	1,9,10



Further documents are listed in the continuation of Box C.



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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2010/055651 A1 (RANTALA JUSSI [FI] ET AL) 4 March 2010 (2010-03-04) abstract paragraph [0021] paragraph [0059] - paragraph [0063]; figure 2 paragraph [0076] - paragraph [0088]; figure 6 paragraph [0092] - paragraph [0102]; figures 7,8 -----	1,9,10
A	US 2015/302774 A1 (DAGAR SUMIT [IN]) 22 October 2015 (2015-10-22) abstract paragraphs [0016], [0022], [0023], [0027]; figures 1A-D paragraph [0029] - paragraph [0035]; figures 3A-3C -----	11
A	US 2012/007809 A1 (MAHALINGAM PADMANABHAN [IN]) 12 January 2012 (2012-01-12) abstract paragraphs [0011], [0026] - [0033], [0038] - [0042]; figures 1-6 -----	1-13
A	US 2015/024371 A1 (MON PERE SUSAN E [US]) 22 January 2015 (2015-01-22) abstract paragraph [0007] - paragraph [0014] paragraph [0038]; figure 9 paragraph [0039]; figures 7,10 -----	1-13

INTERNATIONAL SEARCH REPORT

Information on patent family members

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US 2015302774	A1	22-10-2015	NONE
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US 2015024371	A1	22-01-2015	NONE