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(54) Title: ULTRA THIN METAL PLATE FOR SWITCH BUTTON DEVICE AND METHOD OF PREPARING THE SAME

(57) Abstract: The present invention relates to an ultra thin metal plate for a switch button device being used in electronic equipments. The ultra thin metal plate is formed by heat-treating a metal sheet of a rolled metal hot coil at a predetermined temperature, washing with an acid, forming a coating layer of nickel or silver on the surfaces of the metal sheet by electroplating, and slitting the metal sheet in a predetermined width. Nickel or silver is strongly attached to the surfaces of the ultra thin metal plate by electroplating. Therefore, quality of the switch button device is greatly improved because nickel or silver is hardly separated from the ultra thin metal plate while pressing the ultra thin metal plate to form a switch button device. Further, damages of a mold or a pressing machine caused by separated nickel or silver powder can be avoided.



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A. CLASSIFICATION OF SUBJECT MATTER***H01H 1/021(2006.01)i***

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)

IPC : H01H 1/021

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

Korean Utility models and applications for Utility Models since 1975

Japanese Utility Models and application for Utility Models since 1975

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

eKOMPASS(KIPO internal) "metal sheet, metal plate, roll*, heat-treat*, eletroplat*, nickel, silver, switch"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KR 10-2001-0050491 A (NITTOSHA CO LTD., et al.) 15 June 2001	1
A	See the claim 22,29 and the abstract	2
A	JP 2007-103586 A (NITTO DENKO CORP) 19 April 2007 See the claim 1,2 and the abstract	1-2
A	US 6860952 B2 (James C. Pawloski) 01 March 2005 See the claim 1,2,12 and the abstract	1-2
A	KR 10-1998-0083821 A (KOREA INSTITUTE OF MACHINENRY) 05 December 1998 See the claim 1,2 and the abstract	1-2

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

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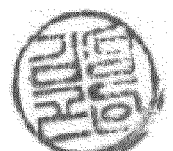
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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