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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

- (88) Date of publication of the international search report:
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(54) Title: MECHANICAL STRUCTURE FOR BUTTON ON SATELLITE MICROPHONE

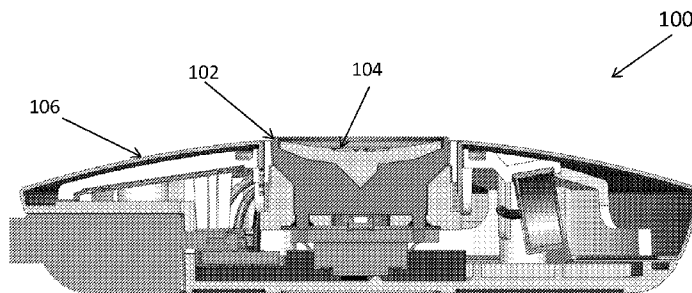


FIG. 1B

(57) Abstract: An apparatus (100) may include: a stationary module (106); a movable module (104) having an outer surface and a substrate; a tactile switch secured on a first side of the substrate; a light indicator (102) secured on a second side of the substrate, the first side and the second side being opposing sides of the substrate, etc. The movable module is configured to generate a spatial displacement relative to the stationary module along a spatial direction in response to a physical force exerted on the outer surface along the spatial direction.



INTERNATIONAL SEARCH REPORT

International application No
PCT/US2016/020457

A. CLASSIFICATION OF SUBJECT MATTER
INV. H01H13/02 H01H13/14
ADD.
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)
H01H
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, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 373 132 A (ACHERMANN PETER [CH] ET AL) 13 December 1994 (1994-12-13) column 2, line 26 - column 3, line 44; figures 1, 2 column 3, line 50 - column 4, line 12 -----	1-8, 13-19
X	JP 2007 141503 A (TEIKOKU TSUSHIN KOGYO KK) 7 June 2007 (2007-06-07) abstract; figure 1 -----	1-8, 13-19
X	JP 2007 194092 A (FUJIKURA LTD) 2 August 2007 (2007-08-02) abstract; figure 1 -----	1,3-8, 13-19
X	JP 2006 140048 A (TEIKOKU TSUSHIN KOGYO KK) 1 June 2006 (2006-06-01) abstract; figure 9 -----	1-8, 13-19
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Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents :

<p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"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</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&" document member of the same patent family</p>
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Date of the actual completion of the international search 27 June 2016	Date of mailing of the international search report 06/09/2016
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Rubio Sierra, F
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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2016/020457

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>EP 1 091 374 A1 (OMRON TATEISI ELECTRONICS CO [JP]) 11 April 2001 (2001-04-11) paragraph [0007] - paragraph [0015]; figures 1-6</p> <p style="text-align: center;">-----</p>	<p>1-8, 13-19</p>

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2016/020457

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.

3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-8, 13-19

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-8, 13-19

 Illumination of an edge of an apparatus

2. claims: 9-12, 20

 Capturing sound in an apparatus

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2016/020457

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