Abstract: A contactless potentiometer is described wherein the conductive (34) and resistive (36) traces of the potentiometer are contained within a sealed channel formed of non-conductive material. The electrical gap between the conductive (34) and resistive (36) traces is bridged by a magnetically reactive contactless tap (46). A magnetic force is applied to the tap (46) through the surface of the channel holding the conductive (34) and resistive (36) traces. This provides a drawing magnetic force to the tap which pulls the tap against the traces and allows for changing the resistance of the potentiometer by laterally moving the tap along the traces as the tap moves to follow the motion of the external force.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
IPC: H01C 10/30(2006.01)

USPC: 338/160
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)
U.S.: 338/160

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
NONE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
</table>

See patent family annex.

Further documents are listed in the continuation of Box C.

Date of the actual completion of the international search: 12 June 2008 (12.06.2008)

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