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(54) **Detachable and foldable integrated drum and process for manufacturing drum-pad thereof**

(57) The invention discloses a detachable and foldable integrated drum including: a drum-pad which includes a base on which at least one drum body is provided, where the drum body has a tympan, a vibration is produced when the tympan is beaten, and a vibration sensor is provided within the drum body for producing an electrical audio signal in response to the vibration; and

a host which is mounted detachably on the drum-pad, and adapted to process the electrical signal to cause a speaker to sound. Both the base and the drum body are made of flexible material, and thus the drum-pad is foldable. The drum-pad of the present invention is foldable and the tympan is small and thin, which can effectively reduce the volume of the drum-pad and make it easy to carry, meanwhile, the productivity is high.

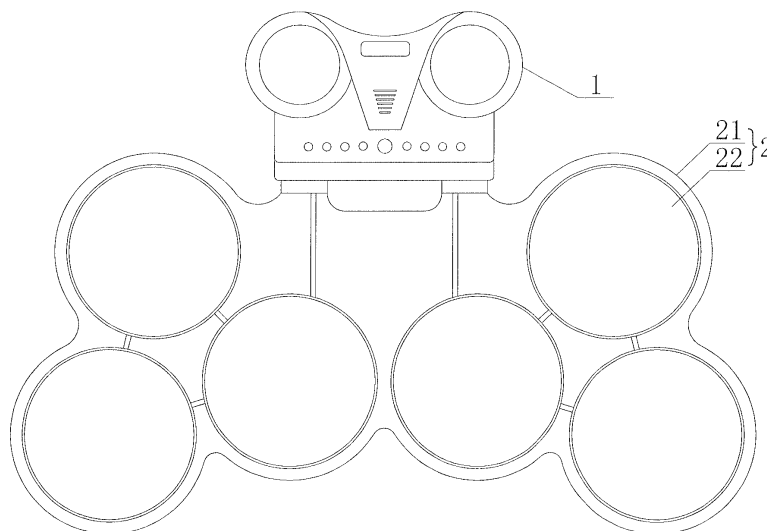


Figure 1



EUROPEAN SEARCH REPORT

Application Number
EP 12 18 6934

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	"Silicone electronic foldable drum ED-L116", CVSonline, 26 March 2012 (2012-03-26), pages 1-2, XP055075814, Internet Retrieved from the Internet: URL:http://www.cvsilicone.com/En/roll-up-drum.html [retrieved on 2013-08-20] * the whole document *	1-9	INV. G10H3/14
X	"Roll Up Drum Pad with AC Adapter", , 29 February 2012 (2012-02-29), XP055075945, Internet Retrieved from the Internet: URL:http://web.archive.org/web/20120229210455/http://www.newdavincis.com/rollupdrumpad-p-1027.html [retrieved on 2013-08-21] * the whole document *	1-9	TECHNICAL FIELDS SEARCHED (IPC) G10H
<p>3 The present search report has been drawn up for all claims</p>			
Place of search Munich		Date of completion of the search 2 September 2013	Examiner Képesi, Marián
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-9

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



**LACK OF UNITY OF INVENTION
SHEET B**

Application Number
EP 12 18 6934

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-9

A foldable integrated drum

2. claim: 10

A process for manufacturing a drum-pad
