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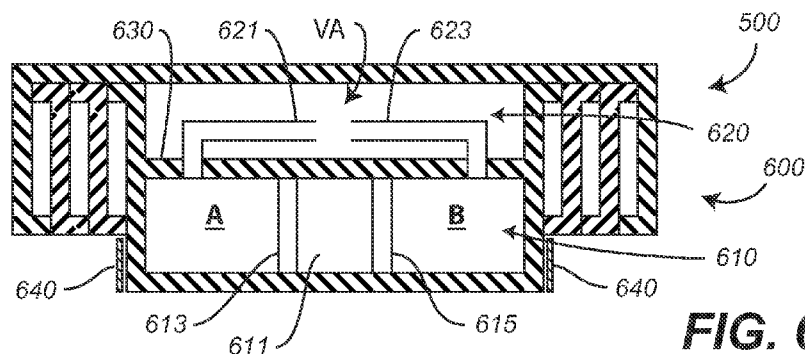
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(54) Title: SINGLE-USE JACK



(57) Abstract: A compact, easy to use, single-use jack is provided. The jack includes an expandable volume formed from nested cylinders and a mechanism to fill the volume, under pressure, with a foam. When the foam is released, the volume expands, increasing the height of the jack. The jack may be safely stored and may be actuated to provide force when needed.

A. CLASSIFICATION OF SUBJECT MATTER***B66F 3/28(2006.01)i, B66F 3/00(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)

B66F 3/28; B66F 3/00

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

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: jack, cylinder, compound, mix, foam, expand and similar terms

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5992825 A (VOLLENWEIDER, II, EDWARD E.) 30 November 1999 See column 2 line 10-column 3 line 62 and figures 1-6.	1-24
A	US 2004-0171710 A1 (MAECHTLE, GARY et al.) 02 September 2004 See abstract and figures 1-3.	1-24
A	US 2364741 A (MERCHANT, DONALD R.) 12 December 1944 See figures 1, 4.	1-24
A	US 4471944 A (LERAY, GERARD et al.) 18 September 1984 See abstract and figure 4.	1-24



Further documents are listed in the continuation of Box C.



See patent family annex.

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"P" document published prior to the international filing date but later than the priority date claimed

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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

"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

"&" document member of the same patent family

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INTERNATIONAL SEARCH REPORT

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US 5992825 A

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None

US 2004-0171710 A1

02.09.2004

None

US 2364741 A

12.12.1944

None

US 4471944 A

18.09.1984

EP 0053144 A1
WO 81-03528 A109.06.1982
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