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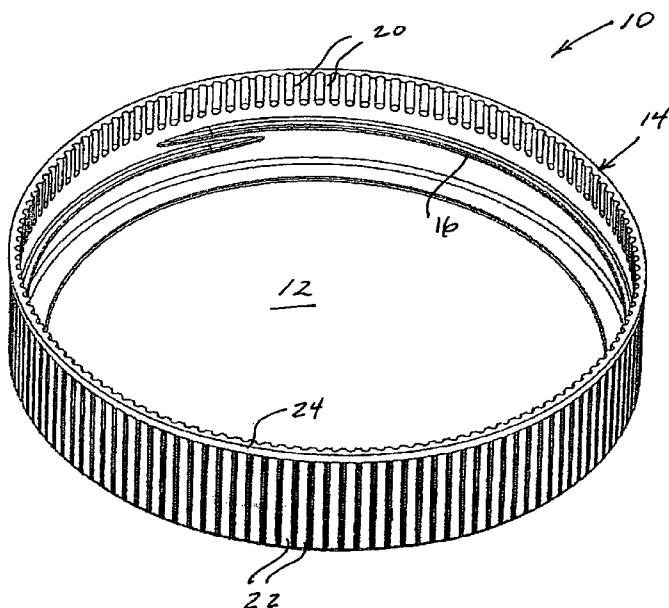
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(54) Title: LIGHTENED, MOLDED PLASTIC CLOSURE EXHIBITING ENHANCED STRENGTH



(57) Abstract: A lightened, molded plastic closure (10) exhibiting enhanced strength includes a top wall portion (12), and an internally threaded (16), depending annular skirt portion (14). The interior surface of the skirt portion, below the closure thread, defines an array of alternating grooves (18) and lands (20), which together define a plurality of circumferentially spaced, vertically extending strengthening ribs on the inside surface of the skirt portion. The skirt portion thus exhibits desirably enhanced column strength, thereby facilitating efficient formation by "stripping" from an associated core pin during molding. In the preferred form, the exterior surface of the skirt portion is provided with a plurality of circumferentially spaced gripping knurls (22) respectively aligned with the grooves defined at the interior surface of the skirt portion.

WO 2008/024472 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/18743

A. CLASSIFICATION OF SUBJECT MATTER

IPC: B65D 41/04(2006.01)

USPC: 215/329;220/288

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. : 215/329; 220/288

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 4,497,765 A (WILDE et al) 05 February 1985, see Fig. 2.	1-3,5-7 ----- 9
X --- Y	DE 32 33 086 A1 (HEINLEIN) 15 March 1984, see drawing figures.	1-3,5,7,8,10,12 ----- 4,6,11

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

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