

Search history

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Title: **PLASTIC CONTAINER** HAVING **SEWALL RIBS** WITH VARYING DEPTH

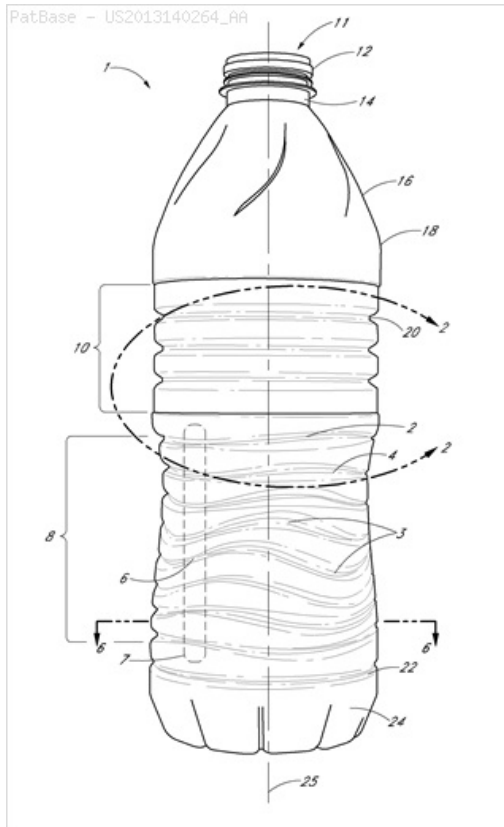
Abstract: Source: US2013140264A A bottle may have varying depth **ribs** to achieve a balance of strength and rigidity while maintaining hoop strength. The varying depth **ribs** may smoothly transition around the circumference of the bottle from a flattened and/or shallow depth rib portion to a deep rib portion. A collection of flattened and/or shallow depth **ribs** act as recessed columns in the body of the bottle to resist bending, leaning, crumbling, and/or stretching. The deep rib portions provide hoop strength and make the bottle body more rigid and/or stiffer when gripped by a user. A balance may be achieved between of flattened and/or shallow depth **ribs** and deep **ribs** to attain a desired resistance to bending, leaning, and/or stretching while maintaining stiffness in a lightweight bottle.

Classifications:

International (IPC 8-9): B65D1/02 B65D1/26 B65D1/40 B65D1/44 B65D21/08 B65D23/00 B65D8/12 B65D90/02 (Advanced/Invention); B65D41/00 (Core/Invention)

CPC: B65D1/0223 B65D2501/0018 B65D2501/0036 B65D1/44 B65D23/00

US: 215/381 215/383 215/384 220/670 220/675



Family:

Publication number	Publication date	Application number	Application date
CA2857965 AA	20140602	CA20122857965	20121204
CN104093637 A	20141008	CN201280069196	20121204
CN104093637 B	20160824	CN201280069196	20121204
EP2788261 A1	20141015	EP20120809897	20121204
IN05274DN2014 A	20150327	IN2014DN05274	20140626
JP2015500188 T2	20150105	JP20140545984T	20121204
MX2014006646 A1	20140904	MX20140006646	20121204
TH128897 A	20131107	TH20121006233	20121130
TW201325996 A	20130701	TW20120145495	20121204
TW201716292 A	20170516	TW20170103451	20121204
TWI572532 B	20170301	TW20120145495	20121204
US2013140264 AA	20130606	US20120705040	20121204
US2014054257 AA	20140227	US20130012841	20130828
US8556098 BB	20131015	US20120705040	20121204
WO13085919 A1	20130613	WO2012US67795	20121204

Priority:

US20110567086P 20111205 US20120705040 20121204 US20130012841 20130828
WO2012US67795 20121204

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

US9132933 BB	20150915	US20130141224	20131226
WO14105956 A1	20140703	WO2013US77810	20131226
WO15099813 A1	20150702	WO2014US11923	20140116

Priority:

JP20160014038	20160128	US20120746535P	20121227	US20140157400	20140116
US20130141224	20131226	US20150610940	20150130	US20140157400	20140114
WO2013US77810	20131226	WO2014US11923	20140116	US20150806489	20150722
US20150817109	20150803				

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