

Title (en)
STACKABLE DRUM

Title (de)
STAPELBARES FASS

Title (fr)
FUT EMPILABLE

Publication
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Application
EP 91902095 A 19901221

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Abstract (en)
[origin: WO9112178A1] The invention concerns a large-capacity stackable drum with a substantially cylindrical side wall (3) and top and bottom ends (32, 34). To improve the stackability in particular the long-term stackability an internal hydrostatic pressure which supports the side wall is initially produced, when stacking several drums one on top of the other, in the gas space above the content and in the contents, of the drums stacked underneath, by virtue of the elastic flexibility of the top (32) and/or the bottom (34) of the drum, until a reduced stacking load acting through the top rim or grip ring (38) of the drum into the drumwall (30) is produced or support provided through the bottom rim or grip ring (40).

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WO 9112178 A1 19910822; AR 246484 A1 19940831; AT E105807 T1 19940615; AU 649647 B2 19940602; AU 7069491 A 19910903; BG 96763 A 19931224; BR 9007982 A 19921103; CA 2075810 A1 19910815; CA 2075810 C 19980728; CN 1025309 C 19940706; CN 1054044 A 19910828; CS 9100225 A2 19910915; CZ 279726 B6 19950614; DE 4041784 A1 19910822; DE 4041784 C2 19990408; DE 4041784 C5 20070823; DE 59005780 D1 19940623; DE 9007282 U1 19900913; DE 9017754 U1 19920123; DK 0515389 T3 19941010; DK 0515389 T4 20000320; EP 0515389 A1 19921202; EP 0515389 B1 19940518; EP 0515389 B2 19990915; ES 2056633 T3 19941001; ES 2056633 T5 19991201; FI 923621 A0 19920813; FI 923621 A 19920813; GR 3032016 T3 20000331; HU 214983 B 19980828; HU 9202325 D0 19921028; HU T67407 A 19950428; IE 910481 A1 19910911; IL 97188 A0 19920525; IL 97188 A 19930610; JP 3016857 B2 20000306; JP H05504120 A 19930701; KR 100187629 B1 19990601; MX 172922 B 19940121; MY 104622 A 19940430; NO 300169 B1 19970421; NO 923158 D0 19920813; NO 923158 L 19920813; TR 24698 A 19920301; ZA 911057 B 19911127

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EP 9002284 W 19901221; AR 31901891 A 19910208; AT 91902095 T 19901221; AU 7069491 A 19901221; BG 9676392 A 19920810; BR 9007982 A 19901221; CA 2075810 A 19901221; CN 91100911 A 19910213; CS 22591 A 19910131; DE 4041784 A 19901224; DE 59005780 T 19901221; DE 9007282 U 19900214; DE 9017754 U 19901224; DK 91902095 T 19901221; EP 91902095 A 19901221; ES 91902095 T 19901221; FI 923621 A 19920813; GR 990403110 T 19991130; HU 232592 A 19901221; IE 48191 A 19910213; IL 9718891 A 19910208; JP 50241391 A 19901221; KR 920701894 A 19920807; MX 2443991 A 19910207; MY P19910211 A 19910211; NO 923158 A 19920813; TR 14591 A 19910213; ZA 911057 A 19910213