

Title (en)
Bung barrel

Title (de)
Spundfass

Title (fr)
Tonneau à bonde

Publication
EP 0324882 B2 19960821 (DE)

Application
EP 88100868 A 19880121

Priority
EP 88100868 A 19880121

Abstract (en)
[origin: EP0324882A1] The bung barrel has solid carrying and transport rings 1 which are shaped integrally out of the barrel shell near to the end surfaces of the barrel, and in which the horizontal lower edge 2 of the ring and the vertical inner wall 3 of the ring form the resting surfaces for the barrel grippers. Each carrying and transport ring is connected integrally to the barrel via a connection ring 4, formed from an axial extension of the cylindrical shell part of the barrel, the groove base between the connection ring and the shell part 5, rising conically towards the end region 6 of the barrel, being arranged with spacing below the horizontal resting surface of the carrying and transport ring.

IPC 1-7
B65D 1/16

IPC 8 full level
B65D 1/16 (2006.01)

CPC (source: EP KR US)
B65D 1/16 (2013.01 - EP KR US)

Cited by
DE19709536A1; US5984133A; DE19709536C2; WO0030940A1; US6182853B1

Designated contracting state (EPC)
AT BE CH DE ES FR GB GR IT LI NL SE

DOCDB simple family (publication)
EP 0324882 A1 19890726; EP 0324882 B1 19911023; EP 0324882 B2 19960821; AR 243846 A1 19930930; AT E68763 T1 19911115;
AU 1388088 A 19890727; AU 603199 B2 19901108; BR 8804832 A 19900515; CA 1312560 C 19930112; CS 276256 B6 19920513;
CS 400688 A3 19920115; DD 273613 A1 19891122; DE 3865829 D1 19911128; DK 167248 B1 19930927; DK 40288 A 19890722;
DK 40288 D0 19880127; EC SP920866 A 19931101; ES 2026952 T3 19920516; ES 2026952 T5 19970101; FI 86704 B 19920630;
FI 86704 C 19921012; FI 882967 A0 19880621; FI 882967 A 19890722; GR 3002984 T3 19930125; GR 3021683 T3 19970228;
HK 59792 A 19920821; HU 209418 B 19940628; HU T50715 A 19900328; IL 85399 A0 19880731; IL 85399 A 19910512; IN 170539 B 19920411;
KR 890011760 A 19890822; KR 930002504 B1 19930403; MX 172385 B 19931215; NO 173860 B 19931108; NO 173860 C 19940216;
NO 880375 D0 19880128; NO 880375 L 19890724; PH 25517 A 19910724; PL 156713 B1 19920430; PL 273376 A1 19890724;
PT 87798 A 19880701; PT 87798 B 19920529; SG 62792 G 19921002; SU 1581212 A3 19900723; US 5033639 A 19910723;
US 5033639 B1 19930525

DOCDB simple family (application)
EP 88100868 A 19880121; AR 31067288 A 19880426; AT 88100868 T 19880121; AU 1388088 A 19880330; BR 8804832 A 19880919;
CA 559009 A 19880216; CS 400688 A 19880609; DD 31739688 A 19880630; DE 3865829 T 19880121; DK 40288 A 19880127;
EC SP920866 A 19920911; ES 88100868 T 19880121; FI 882967 A 19880621; GR 910401483 T 19911024; GR 960403057 T 19961115;
HK 59792 A 19920813; HU 442188 A 19880822; IL 8539988 A 19880211; IN 216MA1988 A 19880405; KR 880015002 A 19881115;
MX 1372288 A 19881109; NO 880375 A 19880128; PH 37563 A 19880920; PL 27337688 A 19880629; PT 8779888 A 19880622;
SG 62792 A 19920617; SU 4355199 A 19880216; US 15473588 A 19880211