

Title (en)

MATERIAL FEEDING CONTAINER FOR TWO-CYLINDER THICK MATTER PUMPS

Title (de)

MATERIALAUFGABEBEHÄLTER FÜR ZWEIZYLINDER-DICKSTOFFPUMPEN

Title (fr)

RESERVOIR D'ALIMENTATION EN MATERIAU POUR POMPES A DEUX CYLINDRES POUR LIQUIDES EPAIS

Publication

EP 1444437 A1 20040811 (DE)

Application

EP 02796540 A 20021102

Priority

- DE 10155787 A 20011114
- EP 0212248 W 20021102

Abstract (en)

[origin: WO03042535A1] The invention relates to a material feeding container for two-cylinder thick matter pumps. The material feeding container (24) has a material supply opening (30) oriented upward, two feed cylinder openings (34) arranged in the front wall (36) of the container and a transfer tube having the shape of an S-tube (42), which is arranged inside the container with its input end (48) swiveling in an alternating manner in front of the feed cylinder openings (34) and mounted on the output side in a feed-through opening (46) of the back wall (38) of the container that is arranged above the feed cylinder openings. A pressure pipe (40) is connected to the outer side of the back wall (38) of the container, the output side (44) of the S-pipe (42) leading into said pressure pipe. According to the invention, a maintenance opening (56) is arranged on the back wall (38), which is formed by an opening defined by a peripheral edge (58). The maintenance opening (56) can be closed with a cap (60), which has a top cap part (64) that is oriented perpendicular to the swiveling axis (50) of the S-pipe (42) and includes the feed-through opening (46) for the S-pipe (42) and a bottom cap part (68) that forms an inclined bottom part and that is connected to said top part substantially parallel to an S-pipe segment (66) extending obliquely downward.

IPC 1-7

F04B 15/02

IPC 8 full level

F04B 15/02 (2006.01)

CPC (source: EP KR US)

F04B 15/02 (2013.01 - KR); **F04B 15/023** (2013.01 - EP US); **Y10T 137/87804** (2015.04 - EP US)

Citation (search report)

See references of WO 03042535A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

WO 03042535 A1 20030522; AT E356933 T1 20070415; CN 100346070 C 20071031; CN 1585856 A 20050223; DE 10155787 A1 20030522; DE 50209738 D1 20070426; EP 1444437 A1 20040811; EP 1444437 B1 20070314; ES 2282510 T3 20071016; JP 2005509783 A 20050414; JP 4065845 B2 20080326; KR 20050042256 A 20050506; US 2004261869 A1 20041230; US 7048006 B2 20060523

DOCDB simple family (application)

EP 0212248 W 20021102; AT 02796540 T 20021102; CN 02822701 A 20021102; DE 10155787 A 20011114; DE 50209738 T 20021102; EP 02796540 A 20021102; ES 02796540 T 20021102; JP 2003544335 A 20021102; KR 20047007341 A 20040514; US 49418204 A 20040429