

Title (en)

Apparatus and Process for Filling Large Containers of Different Sizes and Shapes

Title (de)

Verfahren und Vorrichtung zum Füllen von großen Behälter unterschiedlicher Größen und Formen

Title (fr)

Appareil et procédé pour remplir de grands récipients de différentes tailles et formes

Publication

EP 1661612 A1 20060531 (EN)

Application

EP 06101462 A 20020709

Priority

- EP 02748849 A 20020709
- DE 10133666 A 20010711
- EP 01122734 A 20010921
- EP 06101462 A 20020709

Abstract (en)

An apparatus for filling containers, said apparatus comprising a feed nozzle which may be placed over the feed orifice of the container, the feed nozzle being so constructed that the solids may be introduced under pressure and the container being surrounded by a cage, as well as a process for filling containers, in particular with finely divided solids having a high air content by ## arranging an air-permeable large container in an apparatus according to the invention, ## air-tight connection of the large container to the feed nozzle, ## filling of the container under pressure, ## removal of the filled container and ## container with air-permeable plies.

IPC 8 full level

B01D 46/02 (2006.01); **B65B 1/04** (2006.01); **B65B 1/16** (2006.01); **B65B 1/28** (2006.01); **B65B 31/04** (2006.01); **B65B 43/54** (2006.01);
B65D 5/42 (2006.01); **B65D 30/08** (2006.01); **B65D 30/28** (2006.01); **B65D 33/01** (2006.01); **B65D 65/40** (2006.01); **B65D 88/16** (2006.01);
B65D 88/22 (2006.01); **B65G 65/32** (2006.01)

CPC (source: EP KR US)

B65B 1/28 (2013.01 - EP US); **B65D 5/4295** (2013.01 - EP US); **B65D 65/403** (2013.01 - EP US); **B65D 88/1618** (2013.01 - EP);
B65D 88/1668 (2013.01 - EP); **B67C 3/02** (2013.01 - KR)

Citation (applicant)

- EP 0773159 A1 19970514 - WACKER CHEMIE GMBH [DE]
- DE 19839106 A1 20000309 - WACKER CHEMIE GMBH [DE]
- EP 0761566 B1 20010411 - DEGUSSA [DE]

Citation (search report)

[X] US 4145196 A 19790320 - ALSKOG MAGNUS

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 03006314 A1 20030123; AT E345266 T1 20061215; AT E423070 T1 20090315; CA 2452775 A1 20030123; CA 2452775 C 20070925;
CA 2569061 A1 20030123; CA 2569061 C 20100928; CN 1248912 C 20060405; CN 1525921 A 20040901; DE 60216095 D1 20061228;
DE 60216095 T2 20070621; DE 60231261 D1 20090402; DK 1404576 T3 20070319; EP 1404576 A1 20040407; EP 1404576 B1 20061115;
EP 1661612 A1 20060531; EP 1666377 A2 20060607; EP 1666377 A3 20060913; EP 1666377 B1 20090218; ES 2276943 T3 20070701;
JP 2004533978 A 20041111; JP 4088668 B2 20080521; KR 100599026 B1 20060712; KR 20040019054 A 20040304; PL 207558 B1 20110131;
PL 367330 A1 20050221; UA 76169 C2 20060717

DOCDB simple family (application)

EP 0207615 W 20020709; AT 02748849 T 20020709; AT 06101459 T 20020709; CA 2452775 A 20020709; CA 2569061 A 20020709;
CN 02813899 A 20020709; DE 60216095 T 20020709; DE 60231261 T 20020709; DK 02748849 T 20020709; EP 02748849 A 20020709;
EP 06101459 A 20020709; EP 06101462 A 20020709; ES 02748849 T 20020709; JP 2003512098 A 20020709; KR 20047000356 A 20040109;
PL 36733002 A 20020709; UA 2004020966 A 20020709