

Title (en)
VALVE BAG

Title (de)
VENTILSACK

Title (fr)
SAC À VALVE

Publication
EP 3016870 B1 20170329 (DE)

Application
EP 14736614 A 20140624

Priority
• DE 202013005898 U 20130701
• EP 2014001707 W 20140624

Abstract (en)
[origin: WO2015000559A1] The invention concerns a valve bag 10 for bulk material, such as cement, gypsum, granulated material, animal feed, and the like, with a bottom, preferably a cross or block bottom, and with a valve tray which is disposed opposite the bottom and into which valve tubing 50 is inserted in order to fill the valve bag. The valve tubing is formed of a thermal material 60 and a carrier material 70 surrounding the thermal material. The areal proportion of the thermal material is smaller than the areal proportion of the carrier material.

IPC 8 full level
B65D 30/24 (2006.01); **B65D 30/18** (2006.01)

CPC (source: EP US)
A63J 21/00 (2013.01 - EP US); **B65D 31/08** (2013.01 - EP US); **B65D 31/14** (2013.01 - EP US); **B65D 31/142** (2013.01 - EP US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
DE 202013005898 U1 20141013; BR 112015030567 A2 20170725; BR 112015030567 B1 20210316; CN 105452117 A 20160330; CN 105452117 B 20170919; DK 3016870 T3 20170522; EP 3016870 A1 20160511; EP 3016870 B1 20170329; ES 2630376 T3 20170821; JP 2016528113 A 20160915; JP 6352410 B2 20180704; MX 2015016542 A 20160413; MX 370403 B 20191211; MY 182198 A 20210118; PL 3016870 T3 20171031; SA 515370110 B1 20190416; US 2016368666 A1 20161222; WO 2015000559 A1 20150108

DOCDB simple family (application)
DE 202013005898 U 20130701; BR 112015030567 A 20140624; CN 201480037078 A 20140624; DK 14736614 T 20140624; EP 14736614 A 20140624; EP 2014001707 W 20140624; ES 14736614 T 20140624; JP 2016522314 A 20140624; MX 2015016542 A 20140624; MY PI2015704782 A 20140624; PL 14736614 T 20140624; SA 515370110 A 20151107; US 201414902379 A 20140624