

Title (en)

Valve bag with venting devices

Title (de)

Ventilsack mit Entlüftungsvorrichtungen

Title (fr)

Sac d'aération doté de dispositifs d'aération

Publication

EP 2684813 A2 20140115 (DE)

Application

EP 13187963 A 20131009

Priority

DE 202013102644 U 20130619

Abstract (en)

The valve bag (1) has a filler device (6) and two ventilation devices (5). The filler device surface that facing to exterior of bag portion, is positively connected to ventilation device surface that facing interior. The portion of surface of ventilation device is formed as inner bottom surface of bag portion. One ventilation device is formed in form of ventilation chamber along bottom portion and is closed on side of filler device. Another ventilation device is arranged between bottom impact plate and two tabs (11,12) on side wall (2) of bag portion.

Abstract (de)

Die vorliegende Erfindung betrifft einen Ventilsack (1) mit 2 unterschiedlichen Entlüftungsvorrichtungen (5).

IPC 8 full level

B65D 30/24 (2006.01)

CPC (source: EP)

B65D 31/142 (2013.01); **B65D 33/01** (2013.01)

Citation (applicant)

- DE 4140213 A1 19930609
- DE 202007004838 U1 20070531 - DY PACK VERPACKUNGEN GUSTAV DY [DE]
- EP 0767105 B1 19990414 - KORSNAES WILHELMSTAL GMBH PAPI [DE]
- EP 0076105 B1 19861210
- DE 1806333 A1 19700514 - SACHSER PAPIERVERARB
- EP 0060599 B1 19850213
- EP 0291128 A1 19881117 - WAVIN BV [NL]
- EP 2345595 A1 20110720 - PAPIERSACKFABRIK TENAX GMBH & CO KG [DE]
- DE 4140213 A1 19930609

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 202013102644 U1 20130724; DE 202013104610 U1 20131206; EP 2684813 A2 20140115; EP 2684813 A3 20150729; EP 2684813 B1 20180509; EP 2684814 A2 20140115; EP 2684814 A3 20150729; EP 2684814 B1 20190501; PL 2684813 T3 20181130; PL 2684814 T3 20191231

DOCDB simple family (application)

DE 202013102644 U 20130619; DE 202013104610 U 20131011; EP 13187963 A 20131009; EP 13188353 A 20131011; PL 13187963 T 20131009; PL 13188353 T 20131011