

Title (en)
APPARATUS FOR THE TRANSPORT AND STORAGE OF PROPPANT

Title (de)
VORRICHTUNG FÜR TRANSPORT UND LAGERUNG EINES STÜTZMITTELS

Title (fr)
APPAREIL POUR LE TRANSPORT ET LE STOCKAGE D'AGENT DE SOUTÈNEMENT

Publication
EP 3154876 A4 20180808 (EN)

Application
EP 15806869 A 20150612

Priority
• US 201462012153 P 20140613
• US 201462012165 P 20140613
• US 201562139323 P 20150327
• US 2015035635 W 20150612

Abstract (en)
[origin: WO2015192061A1] An apparatus for the transport and storage of proppant has a container with a top wall, a pair of end walls and a pair of side walls. The pair of side walls extend between the pair of end walls. The container has a bottom discharge opening. The container includes a funnel extending from the pair of side walls and from the pair of end walls toward the bottom discharge opening. The funnel has sides extending in an angle of greater than 25 with respect to horizontal. The funnel includes a pair of side plates extending respectively from the pair of side walls toward the bottom discharge opening and a pair of end plates extending respectively from the pair of end walls toward the bottom discharge opening. Each of the side plates and the end plates is formed of a stainless steel material.

IPC 8 full level
B65D 88/30 (2006.01); **B61B 1/00** (2006.01); **B61D 3/20** (2006.01); **B65D 90/58** (2006.01)

CPC (source: EP)
B61B 1/005 (2013.01); **B61D 3/20** (2013.01); **B65D 88/30** (2013.01); **B65D 90/587** (2013.01); **B65D 2590/0091** (2013.01)

Citation (search report)
• [XDI] US D688349 S 20130820 - OREN JOHN [US], et al
• [XI] US 8585341 B1 20131119 - OREN JOHN [US], et al
• [XDI] US D688772 S 20130827 - OREN JOHN [US], et al
• [XDI] US 8505780 B2 20130813 - OREN JOHN [US]
• [XAI] US 2014083554 A1 20140327 - HARRIS ROBERT A [US]
• [X] CN 203580948 U 20140507 - TAIYUAN RAILWAY TRANSP EQUIP
• [X] CN 201161588 Y 20081210 - NANCHE MEISHAN ROLLING STOCK C [CN]
• [X] GB 1000621 A 19650811 - PULLMAN INC
• [A] US 8622251 B2 20140107 - OREN JOHN [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)
WO 2015192061 A1 20151217; AU 2015274317 A1 20161215; AU 2015274317 B2 20200227; BR 112016029181 A2 20170822;
BR 112016029181 A8 20210406; CA 2950927 A1 20151217; CA 2950927 C 20231003; CN 106458437 A 20170222; CN 106458437 B 20190215;
CN 108516356 A 20180911; CO 2017000215 A2 20170310; EP 3154876 A1 20170419; EP 3154876 A4 20180808; EP 3495289 A2 20190612;
EP 3495289 A3 20190731; MX 2016016440 A 20170816

DOCDB simple family (application)
US 2015035635 W 20150612; AU 2015274317 A 20150612; BR 112016029181 A 20150612; CA 2950927 A 20150612;
CN 201580031467 A 20150612; CN 201810320822 A 20150612; CO 2017000215 A 20170111; EP 15806869 A 20150612;
EP 19155269 A 20150612; MX 2016016440 A 20150612