

Title (en)

Impregnation vessel with convergence side relief and method for heat injection at convergence

Title (de)

Imprägnierungsgefäß mit Konvergenzseitenrelief und Verfahren zur Hitzeinjektion bei Konvergenz

Title (fr)

Récipient d'imprégnation avec décharge latérale de convergence et procédé d'injection thermique de convergence

Publication

**EP 2017382 A2 20090121 (EN)**

Application

**EP 08012827 A 20080716**

Priority

- US 94998707 P 20070716
- US 14124408 A 20080618

Abstract (en)

An impregnation vessel (10) including: a vessel container including an upper inlet (14) to receive cellulosic material; a lower discharge port (27) to discharge the cellulosic material from a discharge section of the vessel container; a convergence section (22) internal to the vessel through which passes a flow of the cellulosic material in the vessel; a cavity (34) between an internal wall of the vessel and the convergence section (22), wherein the cavity (34) has a lower opening to the cellulosic material in the vessel and an upper section shielded from the flow of cellulosic material in the vessel, and an input port in the vessel and opening to the cavity (34), wherein the input port is connectable to a source of hot liquid to be added to the cellulosic material in the vessel.

IPC 8 full level

**B65D 88/26** (2006.01); **B65D 88/64** (2006.01); **D21C 1/00** (2006.01); **D21C 3/24** (2006.01); **D21C 7/00** (2006.01)

CPC (source: EP US)

**D21C 1/00** (2013.01 - EP US); **D21C 1/02** (2013.01 - EP US); **D21C 3/24** (2013.01 - EP US); **D21C 7/00** (2013.01 - EP US)

Citation (applicant)

- US 4746400 A 19880524 - SHERMAN MICHAEL I [US], et al
- US 5500083 A 19960319 - JOHANSON JERRY R [US]
- US 5628873 A 19970513 - JOHANSON JERRY R [US], et al

Citation (third parties)

Third party :

US 4028171 A 19770607 - RICHTER JOHAN C F C

Cited by

EP2591165A4; US8821691B2; WO2012134791A1

Designated contracting state (EPC)

AT DE ES FI PT SE

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**EP 2017382 A2 20090121**; **EP 2017382 A3 20090415**; AU 2008202747 A1 20090205; AU 2008202747 B2 20111124; BR PI0802452 A2 20090422; CA 2635871 A1 20090116; CL 2008002050 A1 20090116; JP 2009024322 A 20090205; RU 2008129034 A 20100120; RU 2469142 C2 20121210; US 2009020244 A1 20090122

DOCDB simple family (application)

**EP 08012827 A 20080716**; AU 2008202747 A 20080623; BR PI0802452 A 20080715; CA 2635871 A 20080625; CL 2008002050 A 20080714; JP 2008182306 A 20080714; RU 2008129034 A 20080715; US 14124408 A 20080618