

Title (en)

ULTRASONIC DEFOAMING APPARATUS FOR A PACKAGING MACHINE AND A PACKAGING MACHINE

Title (de)

ULTRASCHALLENTSCHÄUMUNGSVORRICHTUNG FÜR EINE VERPACKUNGSMASCHINE UND VERPACKUNGSMASCHINE

Title (fr)

APPAREIL DE DESTRUCTION DE MOUSSE ULTRASONORE POUR UNE MACHINE D'EMBALLAGE ET MACHINE D'EMBALLAGE

Publication

**EP 3049330 A1 20160803 (EN)**

Application

**EP 14847893 A 20140909**

Priority

- FI 20135964 A 20130926
- FI 2014050685 W 20140909

Abstract (en)

[origin: WO2015044512A1] The invention relates to an ultrasonic defoaming apparatus (10) for an aseptic liquid container packaging machine (50) comprising an ultrasonic hammer (12), an ultrasonic amplifier (14) and an ultrasonic crystal (16). The ultrasonic amplifier (14) is fastened to the packaging machine outside an aseptic chamber (51) and the ultrasonic hammer (12) is arranged within the aseptic chamber (51) of the packaging machine (50) above the container conveyor. The ultrasonic hammer is configured to direct ultrasonic oscillation towards containers on the container conveyor for defoaming the foam of containers.

IPC 8 full level

**A01J 11/02** (2006.01); **B01D 19/02** (2006.01); **B65B 3/22** (2006.01); **B65B 55/02** (2006.01)

CPC (source: EP FI)

**A01J 11/02** (2013.01 - EP FI); **B01D 19/02** (2013.01 - EP FI); **B65B 3/04** (2013.01 - FI); **B65B 3/22** (2013.01 - EP FI); **B65B 55/027** (2013.01 - FI); **B65B 9/2049** (2013.01 - EP); **B65B 2210/06** (2013.01 - EP)

Citation (search report)

See references of WO 2015044512A1

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)

**WO 2015044512 A1 20150402**; EP 3049330 A1 20160803; FI 125193 B 20150630; FI 20135964 A 20150327

DOCDB simple family (application)

**FI 2014050685 W 20140909**; EP 14847893 A 20140909; FI 20135964 A 20130926