

Title (en)

CLEANING DEVICE AND METHOD FOR REMOVING A LUBRICANT FROM THE ROLLERS OF A ROLLER FRAMEWORK

Title (de)

REINIGUNGSVORRICHTUNG UND VERFAHREN ZUM ENTFERNEN EINES SCHMIERMITTELS VON DEN WALZEN EINES WALZGERÜSTES

Title (fr)

DISPOSITIF DE NETTOYAGE ET PROCÉDÉ DE SUPPRESSION D'UN LUBRIFIANT À PARTIR DES CYLINDRES D'UNE CAGE DE LAMINOIR

Publication

**EP 2794137 B1 20160309 (DE)**

Application

**EP 12808763 A 20121212**

Priority

- EP 12153475 A 20120201
- EP 2012075215 W 20121212
- EP 12808763 A 20121212

Abstract (en)

[origin: EP2623223A1] The cleaning apparatus (16) has an ultrasonic generator (18) for producing ultrasonic waves with frequency between 35-200 kHz. The ultrasonic waves are passed with respect to surface of the rollers (4) by the cleaning fluid such as water. The temperature of the cleaning fluid is set in the range of 0-70[deg] C. The lubricant is supplied by lubricant nozzles (14). An independent claim is included for method for removing lubricant from rollers.

IPC 8 full level

**B21B 45/02** (2006.01); **B08B 3/12** (2006.01); **B08B 7/02** (2006.01)

CPC (source: EP US)

**B21B 28/02** (2013.01 - US); **B21B 45/0284** (2013.01 - EP US); **B21B 27/10** (2013.01 - EP US); **B21B 28/04** (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)

**EP 2623223 A1 20130807**; BR 112014019035 A2 20170620; BR 112014019035 A8 20170711; CN 104080552 A 20141001; CN 104080552 B 20160413; EP 2794137 A1 20141029; EP 2794137 B1 20160309; US 2015020845 A1 20150122; WO 2013113441 A1 20130808

DOCDB simple family (application)

**EP 12153475 A 20120201**; BR 112014019035 A 20121212; CN 201280068760 A 20121212; EP 12808763 A 20121212; EP 2012075215 W 20121212; US 201214376281 A 20121212