

Title (en)

INSTALLATION ARRANGEMENT AND METHOD FOR THE AUTOMATED CLEANING OF LAMELLAR HEAT EXCHANGERS

Title (de)

INSTALLATIONSANORDNUNG UND VERFAHREN ZUR AUTOMATISIERTEN REINIGUNG VON LAMELLENWÄRMETAUSCHERN

Title (fr)

AGENCEMENT D'INSTALLATION ET PROCÉDÉ DE NETTOYAGE AUTOMATIQUE D'ÉCHANGEURS DE CHALEUR À LAMELLES

Publication

EP 3532793 A1 20190904 (DE)

Application

EP 17777476 A 20170822

Priority

- DE 102016013001 A 20161031
- DE 102017101850 A 20170131
- DE 2017100700 W 20170822

Abstract (en)

[origin: WO2018077326A1] The invention relates to a method for the automated cleaning of lamellar heat exchangers (13) and other sensitive surfaces, wherein a moving device (10), preferably moving on the rollers (4) or skids, is moved up and down on a guide unit (9) consisting of at least one and preferably two guide rails (1), which moving device has attached to it a support arm (5) to which are attached at least one and preferably multiple spray nozzles (6) such that these nozzles are moved by the moving device (10) by means of an additional drive unit (2), preferably via a roller or gear wheel (8) attached at another end next to the guide unit (9), wherein supply hoses (19) pressurized to at least 2 bar supply a carrier gas, preferably compressed air, and as the spraying medium a liquid, preferably water, wherein the supplied water quantity is less than 1%, preferably less than 0.30% of the supplied air quantity.

IPC 8 full level

F28G 1/16 (2006.01); **F28G 15/00** (2006.01); **F28G 15/02** (2006.01)

CPC (source: EP US)

B05B 7/0075 (2013.01 - US); **B05B 7/0483** (2013.01 - US); **B08B 3/024** (2013.01 - US); **B08B 11/00** (2013.01 - US); **F28G 1/166** (2013.01 - EP US); **F28G 15/003** (2013.01 - EP US); **F28G 15/02** (2013.01 - EP US)

Citation (search report)

See references of WO 2018077326A1

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 2018077326 A1 20180503; CN 108463685 A 20180828; DE 102017101850 A1 20180503; EP 3532793 A1 20190904; EP 3532793 B1 20210526; US 2019255574 A1 20190822

DOCDB simple family (application)

DE 2017100700 W 20170822; CN 201780006282 A 20170822; DE 102017101850 A 20170131; EP 17777476 A 20170822; US 201916399132 A 20190430