

Title (en)

METHOD FOR THE THIN COATING OF INNER SURFACES OF THROUGH-OPENINGS

Title (de)

VERFAHREN ZUR DÜNNBESCHICHTUNG INNENLIEGENDER OBERFLÄCHEN VON DURCHGANGSAUSNEHMUNGEN

Title (fr)

PROCÉDÉ POUR APPLIQUER UN REVÊTEMENT MINCE SUR DES SURFACES INTÉRIEURES D'ÉVIDEMENTS DÉBOUCHANTS

Publication

EP 4094031 A1 20221130 (DE)

Application

EP 21705422 A 20210111

Priority

- DE 102020101229 A 20200120
- DE 102020127076 A 20201014
- DE 2021100013 W 20210111

Abstract (en)

[origin: WO2021148078A1] The invention relates to a method for applying a thin coating to an inner surface (10) of a through-opening (9), in particular a through-opening (9) of a finned-tube heat exchanger (12), and/or a through-hole, wherein a coating agent (2) is introduced into a stream of compressed air (1), and thereby broken down into very fine droplets, and a nozzle jet (3) generated by a convergent-divergent jet nozzle with a constriction (5) is subsequently used to apply this coating agent at a high flow velocity to the surface (10) to be coated.

IPC 8 full level

F28F 1/12 (2006.01); **B05D 1/02** (2006.01); **B05D 3/04** (2006.01); **B05D 5/08** (2006.01); **B05D 7/22** (2006.01); **F28F 1/32** (2006.01); **F28F 13/18** (2006.01); **F28F 19/02** (2006.01)

CPC (source: EP)

B05D 1/02 (2013.01); **B05D 7/22** (2013.01); **F28F 1/126** (2013.01); **F28F 1/32** (2013.01); **F28F 13/18** (2013.01); **F28F 19/02** (2013.01); **B05D 3/042** (2013.01); **B05D 5/08** (2013.01); **B05D 5/083** (2013.01); **F28F 2245/00** (2013.01); **F28F 2245/04** (2013.01)

Citation (search report)

See references of WO 2021148078A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

DE 102020127076 A1 20210722; EP 4094031 A1 20221130; WO 2021148078 A1 20210729

DOCDB simple family (application)

DE 102020127076 A 20201014; DE 2021100013 W 20210111; EP 21705422 A 20210111