

Title (en)

HIGH-PRESSURE CLEANING DEVICE, CLEANING DISPERSION AND ARRANGEMENT OF HIGH-PRESSURE CLEANING DEVICE IN RELATION TO A SURFACE

Title (de)

HOCHDRUCKREINIGUNGSVORRICHTUNG, REINIGUNGSDISPERSION UND ANORDNUNG HOCHDRUCKREINIGUNGSVORRICHTUNG ZU OBERFLÄCHE

Title (fr)

DISPOSITIF DE NETTOYAGE HAUTE PRESSION, DISPERSION DE NETTOYAGE ET AGENCEMENT DU DISPOSITIF DE NETTOYAGE HAUTE PRESSION PAR RAPPORT À LA SURFACE

Publication

EP 3814027 A1 20210505 (DE)

Application

EP 19730772 A 20190613

Priority

- DE 102018115510 A 20180627
- EP 2019065601 W 20190613

Abstract (en)

[origin: WO2020002001A1] The invention relates to a high-pressure cleaning device (1; 101) for a material-friendly cleaning of surfaces soiled by fine particles, particularly motor vehicle surfaces (2), said device comprising a high-pressure pump (4) for delivering a cleaning product to a high-pressure jet nozzle (8) where the cleaning product emerges in a high-pressure jet (10), wherein the cleaning product comprises a cleaning dispersion (6) with a carrier fluid (14) and with solid cleaning particles (12; 212) having a density of between 0.8 g/cm³ and 3.5 g/cm³, particularly between 0.9 g/cm³ and 2.2 g/cm³, and the high-pressure cleaning device (1; 101) is configured such that, when a cleaning particle (12; 212) emerges from the high-pressure jet nozzle, it has a kinetic energy of minimum 1 - 10-10 J and maximum 2 - 10-4 J, preferably minimum 2 - 10-9 J and maximum 7-10-5 J, and most particularly preferably between minimum 4 - 10-7 J and maximum 9 - 10-6 J. Furthermore, the invention relates to a cleaning dispersion for a high-pressure cleaning device, and to an arrangement of a high-pressure cleaning device and a surface to be cleaned according to the alternative independent claims.

IPC 8 full level

B05B 7/14 (2006.01); **B08B 3/02** (2006.01); **B24C 7/00** (2006.01)

CPC (source: EP US)

B05B 7/1431 (2013.01 - US); **B05B 7/1481** (2013.01 - US); **B08B 3/02** (2013.01 - EP); **B08B 3/022** (2013.01 - US); **B08B 3/08** (2013.01 - US); **B24C 7/0015** (2013.01 - EP); **B24C 11/00** (2013.01 - EP US); **B60S 3/04** (2013.01 - US); **B05B 7/1431** (2013.01 - EP); **B05B 7/1481** (2013.01 - EP); **B05B 15/25** (2018.01 - EP US); **B08B 3/022** (2013.01 - EP); **B08B 2203/0217** (2013.01 - US); **B08B 2203/0223** (2013.01 - US); **B08B 2203/0258** (2013.01 - US); **B24C 7/0015** (2013.01 - US); **B60S 3/04** (2013.01 - EP)

Citation (search report)

See references of WO 2020002001A1

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)

DE 102018115510 A1 20200102; CN 112423903 A 20210226; EP 3814027 A1 20210505; US 2021252535 A1 20210819;
WO 2020002001 A1 20200102

DOCDB simple family (application)

DE 102018115510 A 20180627; CN 201980043435 A 20190613; EP 19730772 A 20190613; EP 2019065601 W 20190613;
US 201917251095 A 20190613