

Title (en)

BRUSH HAVING A BRISTLE BUNCH FASTENED BY MEANS OF CLAMPS, AND WIRE FOR PRODUCING SUCH CLAMPS

Title (de)

BÜRSTE MIT MITTELS KLAMMERN BEFESTIGTEN BORSTENBÜSCHEL SOWIE DRAHT ZUR HERSTELLUNG DERARTIGER KLAMMERN

Title (fr)

BROSSE DOTÉE D'UNE TOUFFE DE POILS FIXÉE AU MOYEN DE PINCES, ET FIL PERMETTANT LA PRODUCTION DE TELLES PINCES

Publication

EP 4013265 B1 20240619 (DE)

Application

EP 20749814 A 20200713

Priority

- EP 2020069771 W 20200713
- DE 102019121693 A 20190812

Abstract (en)

[origin: WO2021028139A1] The invention relates to a brush having a carrier made of a plastically deformable plastics material for the arrangement of bristle bunches (13), the carrier having a plurality of bunch holes (14), which are each used to receive a bristle bunch (13), each bristle bunch (13) being fastened in a bunch hole (14) by means of a clamp (16), and the clamps (16) being provided with discontinuous structural elements, at least in the region of clamp overhangs (23, 24), on at least one longitudinal side (22) arranged substantially parallel to a bunch hole axis, the structural elements being arranged at a distance from the longitudinal edges of the clamp (16).

IPC 8 full level

A46B 3/16 (2006.01); **A46B 3/18** (2006.01); **A46B 9/04** (2006.01)

CPC (source: CN EP KR US)

A46B 3/16 (2013.01 - CN EP KR US); **A46B 9/04** (2013.01 - CN EP KR US); **A46D 1/0207** (2013.01 - KR);
A46B 2200/1066 (2013.01 - CN EP KR 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)

WO 2021028139 A1 20210218; BR 112022001762 A2 20220322; CA 3149570 A1 20210218; CN 114222512 A 20220322;
DE 102019121693 A1 20210218; EP 4013265 A1 20220622; EP 4013265 B1 20240619; JP 2022544661 A 20221020; JP 7514914 B2 20240711;
KR 20220047287 A 20220415; MX 2022001575 A 20220524; US 2022287445 A1 20220915

DOCDB simple family (application)

EP 2020069771 W 20200713; BR 112022001762 A 20200713; CA 3149570 A 20200713; CN 202080057072 A 20200713;
DE 102019121693 A 20190812; EP 20749814 A 20200713; JP 2022508989 A 20200713; KR 20227005998 A 20200713;
MX 2022001575 A 20200713; US 202017633403 A 20200713