

Title (en)
BRUSH COMPRISING A MECHANICAL FIXING SYSTEM OF TUFTS OF FIBERS WITHOUT THE USE OF METAL ELEMENTS AND RELATED METHOD FOR THE PRODUCTION OF BRUSHES, BROOMS OR THE LIKE

Title (de)
BÜRSTE MIT EINEM MECHANISCHEN BEFESTIGUNGSSYSTEM AUS FASERBÜNDELN OHNE VERWENDUNG VON METALLELEMENTEN UND VERFAHREN ZUR HERSTELLUNG VON BÜRSTEN, BESEN ODER DERGLEICHEN

Title (fr)
BROSSE COMPRENANT UN SYSTÈME DE FIXATION MÉCANIQUE DE TOUFFES DE FIBRES SANS L'UTILISATION D'ÉLÉMENTS MÉTALLIQUES ET PROCÉDÉ ASSOCIÉ POUR LA PRODUCTION DE BROSSES, DE BALAIS OU SIMILAIRES

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Abstract (en)
The present invention relates to a brush comprising a system for mechanically fixing tufts of fibers that does not requires metal elements. The present invention also refers to a method for the production of brushes by means of the fixing system. According to the inventions, the brush (10) comprises a support body (1) comprising a plurality of holes (2) or cavities, and a plurality of tufts of fibers (3), each tuft being constituted by a plurality of fibers substantially U-folded in their central portion, in which said tufts of fibers (3) are fixed to said support body (1) through a mechanical fixing system of tufts of fibers (3) according to which, in each of said holes (2) is inserted the U-folded end of one of said tufts of fibers (3) and an insert (4), presenting a shape partially complementary to that of the hole (2), said insert (4) being coupled to the support body (1) by means of a forced coupling; wherein said fixing system is implemented by a punching machine (15) to which said insert (4) is fed in the form of a continuous chain (6) or a continuous profile (7) which separates said inserts (4) from each other when they are inserted into said holes (2); said insert (4), said support body (1) and said tufts of fibers (3) being made of equal or different materials but compatible with each other for being recycled together.

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