

Title (en)
MACHINE AND METHOD FOR PRODUCING STRIPS FROM FIBER-REINFORCED PLASTIC COMPOSITE MATERIALS

Title (de)
MASCHINE UND VERFAHREN ZUR HERSTELLUNG VON BÄNDERN AUS FASER-KUNSTSTOFF-VERBUNDWERKSTOFFEN

Title (fr)
MACHINE ET PROCÉDÉ DE PRODUCTION DE BANDES À PARTIR DE MATÉRIAUX COMPOSITES EN PLASTIQUE RENFORCÉ PAR DES FIBRES

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Abstract (en)
[origin: WO2021047739A1] The invention relates to a machine and to a method for the improved production of strips from a fiber-reinforced plastic composite material, the machine comprising a housing (1, 2), through which fibers (F) pass and in which a plurality of profiled bars (3, 4, 5, 6) is fixedly or rotatably mounted, which profiled bars are oriented perpendicularly to the passing direction of the fibers (F) and by means of which profiled bars forces can be applied alternately to the top and bottom of the fibers and to their coating with a plastic (K) in order to impregnate the fibers (F) and to consolidate the plastic (K) between the fibers. According to the invention, the ratio of the average total contact length of all the profiled bars (3, 4, 5, 6) used in the impregnation in millimeters to the number of profiled bars (3, 4, 5, 6) is between 2:1 and 1:400, preferably between 1 and 1:200 and particularly preferably between 1:10 and 1:100.

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