

Title (en)

PROCESS AND DEVICE FOR CONSTITUTING A REINFORCEMENT FROM FIBRE-REINFORCED PLASTIC PARTS AND REINFORCEMENT OBTAINED ACCORDING TO THIS PROCESS

Title (de)

VERFAHREN, VORRICHTUNG UND ARMIERUNG VON FASERARMierten KUNSTSTOFFTEILEN

Title (fr)

PROCEDE ET DISPOSITIF POUR CONSTITUER UN RENFORT A PARTIR DE PIECES EN PLASTIQUE RENFORCEES PAR DES FIBRES ET RENFORT OBTENU SELON CE PROCEDE

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Application

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Abstract (en)

[origin: WO9702131A1] Several layers of unidirectionally fibre-reinforced plastic rods (6) are superimposed crosswise in a template and bound at their crossing points to form a reinforcement grating (1). The grating is introduced together with liquid artificial resin into a casting mould (15, 17). A moulding element (18) with hollow moulding bodies (22) is lowered into the casting mould (15, 17). Each moulding body (22) enters an opening of the grating (1), displacing the artificial resin. When the artificial resin is set, the moulding bodies (22) are detached from the rubber suction cups (23) by pressure compensation, the moulding element (18) is lifted and the finished grating is removed from the mould (15, 17). The moulding bodies remain as lost moulds undetachably joined to the grating. The protruding moulding elements are ground off. This process allows highly resistant gratings to be produced. The prefabricated reinforcement (1) is also suitable for reinforcing other plastic products.

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