

Title (en)

MACHINE FOR PRESSURE-INJECTING SYNTHETIC RESIN MIXED WITH REINFORCING FIBRES INTO A USER MEANS

Title (de)

MASCHINE ZUM SPRITZPRESSEN EINES KUNSTSTOFFES VERMISCHT MIT VERSTÄRKUNGSFASERN IN EINEN VERBRAUCHER

Title (fr)

MACHINE POUR INJECTER SOUS PRESSION DE LA RESINE SYNTHETIQUE MELANGEE AVEC DES FIBRES DE RENFORCEMENT DANS UN SYSTEME UTILISATEUR

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Application

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Abstract (en)

[origin: GB2361195A] Synthetic resin and reinforcing fibres are mixed and pressure injected in a machine comprising a first resin supply screw conveyor 10 with an axially movable shaft 11 and a second resin/fibre mixing screw conveyor 20. A first conduit 41 connects the first conveyor 10 to an intermediate portion of the second conveyor 20 and a second conduit 42 connects the exit end of the second conveyor 20 to an injection chamber 30 which houses a thrust piston 31. The machine operates cyclically so that in a first stage (Fig 2A) forward movement of first screw conveyor 10 and piston 31 discharges mixed material from chamber 30 via exit 32. In a second stage (Fig 2B) rotation of screw conveyor 10 and rearward movement feeds resin to an intermediate chamber 19 behind piston 31 via one-way valve 35. In a third stage a valve (51, Fig 4) in conduit 42 opens and the second screw conveyor 20 feeds mixed resin/fibre to chamber 30 and moves piston 31 backwards to close valve 35 and feed resin from intermediate chamber 19 to the second screw conveyor 20 via conduit 41 to mix with fibres fed from hopper 26.

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