

Title (en)

TWIN SCREW EXTRUDERS FOR PROCESSING WOOD FIBER AND PROCESS FOR SAME

Title (de)

ZWEISCHNECKENEXTRUDERS ZUR VERARBEITUNG VON HOLZFASERN UND VERARBEITUNGSVERFAHREN

Title (fr)

EXTRUDEUSES A VIS JUMELLES POUR LE TRAITEMENT DE FIBRES DE BOIS ET PROCEDE CORRESPONDANT

Publication

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Application

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Abstract (en)

[origin: WO0183195A2] The invention is extrusion equipment and a process. The extrusion equipment links two extruders (11, 15) together. The first extruder (11) is, desirably, a counter-rotating twin screw extruder. The first extruder (11) receives organic filler, preferably wood particles or fiber, having a variable moisture content. Moisture is withdrawn from the extruder barrel. A polymer is fed from a second extruder (15) into the barrel of the first extruder (11) after the polymer is heated, mixed, and melted in the second extruder (15). The second extruder (15) can be a single screw or twin screw extruder. The combined mixture of organic filler and polymer is further mixed alone or with optional additives. The mixture is vacuum vented to remove moisture and volatiles and then extruded through a die. Additional processing steps are optional depending upon the extruded product or profile being produced.

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