

Title (en)
COMPRESSION MOLDED COMPOSITE MATERIAL FIXED ANGLE ROTOR

Title (de)
AUS FORMGEPRESSTEN VERBUNDMATERIAL HERGESTELLTER FESTWINKELROTOR

Title (fr)
ROTOR A ANGLE FIXE EN MATERIAU COMPOSITE MOULE PAR COMPRESSION

Publication
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Application
EP 96915412 A 19960430

Priority

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- US 56152495 A 19951121

Abstract (en)
[origin: WO9635156A1] A method and apparatus for compression molding of fiber fixed angle rotors. Female mold (F) defines cylindrical bore (14) for molding the bottom of the rotor. Bore (14) defining frustum shaped central cavity (C) complementary to and concentric with the spin axis of the rotor. Male mold (M) contains frustum shaped inner cavity (C) with the apex of frustrum (18) disposed to the inner portion of bore (14) and the base of frustrum (18) exposed to the cylindrical opening of mold (F). Inner cavity (C) defines the exterior shape of the rotor and defines between the exterior profile and the inner cavity (C) a rotor body wall. At the apex of inner cavity (C) there is a lock system for maintaining cores (K) in alignment with sample tubes of the rotor. Loading with resin pre-impregnated fiber occurs in inner cavity (C) and at the bottom of mold (F).

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