

Title (en)

APPARATUS AND METHODS FOR ASSEMBLING A HELICOPTER MAIN ROTOR BLADE SUBASSEMBLY

Title (de)

GERÄT UND VERFAHREN ZUM ZUSAMMENSTELLEN EINES HUBSCHRAUBER-HAUPTROTORBLATTS

Title (fr)

APPAREIL ET PROCEDE POUR ASSEMBLER UN SOUS-ENSEMBLE DE PALE DE ROTOR PRINCIPAL D'HELICOPTERE

Publication

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Application

**EP 98912007 A 19980325**

Priority

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Abstract (en)

[origin: WO9846419A1] An apparatus and method for assembling a helicopter main rotor blade subassembly which includes a lower airfoil skin, a core, an upper airfoil skin, and a spar assembly having a tip end and a root end, the apparatus comprising a lower assembly (202) including a base (206) having a contoured upper airfoil nest (208), wherein the contoured upper airfoil nest has a root end and a tip end, at least two guide ramps (214, 216) disposed proximal to the contoured upper airfoil nest, wherein at least one of the guide ramps is disposed proximal to the root end and at least one of the guide ramps is disposed proximal to the tip end, and a plurality of leading-edge pusher cams (230) disposed proximal to the contoured upper airfoil nest. An upper assembly (250) configured for mating with the lower assembly is provided, and comprises a support structure (252) and a flexible impervious membrane (254) supported by the support structure, wherein the flexible impervious membrane and the contoured upper airfoil nest define a molding cavity therebetween upon mating of the upper assembly to the lower assembly.

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