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(54) Title (EN): MILL BIT FOR THE MANUFACTURE OF A WIND TURBINE BLADE AND METHOD OF FORMING SAME

(54) Title (FR): TRÉPAN POUR LA FABRICATION D'UNE PALE D'ÉOLIENNE ET SON PROCÉDÉ DE FORMATION

(57) Abstract:

(EN): A mill bit for the manufacture of a wind turbine blade includes an elongate based body having a proximal end, a distal end, an outer surface, and an internal bore that defines an inner surface, one or more flutes formed on the outer surface that defines one or more teeth, and an abrasive coating on at least a portion of the outer surface, wherein the one or more flutes are free of the abrasive coating. An abrasive coating may be selectively applied on the inner surface to provide flutes on the inner surface. Additionally, porting bores may be provided through the mill bit to fluidly connect the outside and inside of the mill bit. A method of making a mill bit is also described.

(FR): Trépan pour la fabrication d'une pale d'éolienne comprenant un corps allongé ayant une extrémité proximale, une extrémité distale, une surface externe et un alésage interne qui définit une surface interne, une ou plusieurs cannelures formées sur la surface extérieure qui définit une ou plusieurs dents, et un revêtement abrasif sur au moins une partie de la surface extérieure, la ou les cannelures étant exemptes du revêtement abrasif. Un revêtement abrasif peut être appliqué de manière sélective sur la surface interne pour fournir des cannelures sur la surface interne. De plus, des alésages de portage peuvent être ménagés à travers le trépan pour relier de manière fluide l'extérieur et l'intérieur du trépan. L'invention concerne également un procédé de fabrication d'un trépan.

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