

Title (en)
Boat propeller blade pitch changing.

Title (de)
Anstellwinkel-Veränderung eines Schraubenflügels.

Title (fr)
Variation de l'angle de tangage des pales d'une hélice marine.

Publication
EP 0328966 A1 19890823 (EN)

Application
EP 89101891 A 19890203

Priority
IT 1940288 A 19880215

Abstract (en)
Variable-pitch screw propeller, the pitch of which can be varied and adjusted during traveling, suitable for motor-boats and sailing-boats, of the type provided with a pinion gear at the end of the driving shaft, inmeshing with central gear wheels integral with the blades, and a screw propeller hub of sleeve shape, housing said driving shaft and said gear wheels and supporting, with possibility of free rotation, the shafts integral with the blades, which screw propeller is provided with a mobile element, with said mobile element being movable according to a direction parallel to the axis of the driving shaft and interposed between said sleeve-shaped hub made integral with said driving shaft and said central gear wheels, with said mobile element being provided with at least two coupling elements, wherein one of said coupling elements is in engagement with said central gear wheels, and the other one is in engagement with said sleeve integral with the driving shaft, with the mutual engagement of said coupling elements being accomplished by means of the coupling, with possibility of translation, of said coupling elements inside corresponding grooves respectively provided on said sleeve and on said pinion gear, with at least one of said grooves being provided inclined to the axis of shifting of said mobile element, in such a way as to cause, by means of the axial shift of said mobile element by means of control means consisting of a pressurized fluid, or of mechanical nature, the central gear wheels to rotate relatively to the driving shaft, with the inclination of the blades, and therefore of the pitch of the screw propeller, being consequently changed.

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CPC (source: EP)
B63H 3/02 (2013.01); **B63H 3/082** (2013.01); **B63H 2003/084** (2013.01)

Citation (search report)
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