

Title (en)
FEATHERING PROPELLER WITH A MANUALLY ADJUSTABLE PITCH.

Title (de)
AUF SEGELSTELLUNG FAHRENDER PROPELLER MIT HANDREGULIERBARER STEIGUNG.

Title (fr)
HELICE A PAS VARIABLE REGLABLE MANUELLEMENT.

Publication
EP 0464085 B1 19940126 (EN)

Application
EP 90904926 A 19900319

Priority
• IT 8361489 A 19890321
• IT 8363089 A 19890714
• IT 9000030 W 19900319

Abstract (en)
[origin: WO9011221A1] Pitch adjustment in a feathering propeller employing a planet gear engagement between a pinion-hub (1-3) keyed on the drive shaft (2) and planet pinions (5) at the base of the blades (4) of the propeller which are rotatably mounted through holes of the wall of a hub's casing (6) may be easily performed manually by registering the relative angular position of a second portion (7) of casing in respect to a first portion (6) of the casing housing the planet gear. The registration of the pitch takes place by parting said second portion (7) of casing from said first portion (6) against the resistance of a push-back spring (17) for a distance sufficient to disengage a coupling (12-13) between said second portion (7) and said first portion (6) of the casing or said pinion-hub (1-3), rotating said second portion (7) so disengaged in respect to the first portion (6) of the casing before releasing the pull causing again the engagement of the two portions in a modified relative angular position. In this way the stop means for the travel of a dragging sector (8) solidly connected to the hub (1) of the propeller, which are substantially formed on the internal wall of said second portion of the casing, change their relative angular position about the sector (8) thus modifying the limit orientation assumed by the blades (4) when the drive shaft (2) is rotated. Resilient elements are used between abutment surfaces for preventing deformation thereof.

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B63H 3/02; B63H 3/12

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