

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.

IPC 1-7
B63H 3/02; **B63H 3/12**

IPC 8 full level
B63H 3/00 (2006.01); **B63H 3/02** (2006.01); **B63H 3/12** (2006.01)

CPC (source: EP)
B63H 3/008 (2013.01); **B63H 3/12** (2013.01)

Cited by
US7927160B1; US8465257B1

Designated contracting state (EPC)
DE ES FR GB NL SE

DOCDB simple family (publication)
WO 9011221 A1 19901004; AU 5331190 A 19901022; AU 629328 B2 19921001; DE 69006357 D1 19940310; DE 69006357 T2 19940511; EP 0464085 A1 19920108; EP 0464085 B1 19940126; ES 2049027 T3 19940401; JP H04503935 A 19920716

DOCDB simple family (application)
IT 9000030 W 19900319; AU 5331190 A 19900319; DE 69006357 T 19900319; EP 90904926 A 19900319; ES 90904926 T 19900319; JP 50498690 A 19900319