

Title (en)

Controllable pitch propeller, especially for sporting boats

Title (de)

Verstellpropeller, insbesondere für Sportboote

Title (fr)

Hélice à pas variable, spécialement pour bateaux de sport

Publication

EP 0589338 B1 19970402 (DE)

Application

EP 93114801 A 19930915

Priority

DE 4231814 A 19920923

Abstract (en)

[origin: US5366343A] A self-adjusting variable-pitch propeller has a drive shaft rotatable about a shaft axis in a predetermined forward rotational sense, a hub carried on the drive shaft and limitedly rotatable relative thereto about the shaft axis both in the forward rotational sense and in an opposite backward rotational sense, and a spring operatively braced between the hub and the shaft for rotationally urging the hub on the shaft in the forward rotational sense. A plurality of blades projecting radially from the hub are each rotatable about a respective blade axis generally perpendicular to the shaft axis. Respective rods extending axially in the hub each have an inner end at a respective one of the blades and an outer end. Respective linkages connecting the inner ends of the rods to the respective blades angularly displace the blades about the respective axes on relative displacement of the rods and hub. A coupling engaged between the shaft and the hub and to the outer ends of the rods displaces the rods relative to the hub axially or angularly to an extent corresponding to the relative rotation in the backward rotational sense against a force exerted on the hub by the spring.

IPC 1-7

B63H 3/10

IPC 8 full level

B63H 3/00 (2006.01)

CPC (source: EP US)

B63H 3/008 (2013.01 - EP US)

Cited by

KR101045044B1; DE19936948C1; EP1074463A3; EP1074463A2; US6352410B1; DE102022126535A1; WO2024079265A1

Designated contracting state (EPC)

FR GB IT NL SE

DOCDB simple family (publication)

DE 4231814 C1 19940120; EP 0589338 A1 19940330; EP 0589338 B1 19970402; US 5366343 A 19941122

DOCDB simple family (application)

DE 4231814 A 19920923; EP 93114801 A 19930915; US 12608293 A 19930923