

Title (en)
Propeller or the like with joined blades.

Title (de)
Propeller oder ähnliches mit eingesetzten Schraubenflügeln.

Title (fr)
Hélice ou similaire à pales rapportées.

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EP 0207867 A1 19870107 (FR)

Application
EP 86420161 A 19860624

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FR 8510367 A 19850626

Abstract (en)
[origin: ES8706904A1] A propeller according to the invention has a hub centered on and rotatable about a hub axis and formed with a bore extending along the axis and with a plurality of identical, radially outwardly open, and angularly equispaced sockets centered on socket axes extending at least generally radially of the hub axis. Respective identical blades each have a base complementary to and snugly fittable in the respective socket and an outer part extending radially outward from the hub along the respective socket axis when the respective base is fitted therein. Respective locks are provided in the hub for releasably fixing the bases in the respective sockets against relative movement between the respective blades and the hub. The sockets and bases are normally complementarily cylindrical and both centered when the bases are in the sockets on the respective socket axes. Thus the blades can turn about the respective socket axes on the hub when released by the respective locking means. In addition each socket is formed with an annular groove open inwardly radially of the respective socket axis and each base is formed with a similar annular but outwardly open groove confronting the respective inwardly open groove when the base is fitted in the respective socket and forming with the respective inwardly open groove an annular chamber. The system for locking includes a respective plurality of balls generally filling the chamber and something that can press the balls tightly against the respective grooves.

Abstract (fr)
Cette hélice comprend un moyeu central (2) portant des pales (1) initialement séparées du moyeu. A la périphérie du moyeu (2) sont ménagés des logements cylindriques (5), recevant chacun une partie complémentaire (8) formée sous l'embase (7) d'une pale (1). Le logement (5) et la partie (8) présentent des gorges annulaires (6,9) qui définissent une cavité torique dans laquelle sont introduites des billes (10) assurant la liaison entre la pale (1) et le moyeu (2). Une vis de blocage (14) permet de presser les billes (10) contre les parois de la cavité torique, pour immobiliser la pale (1) dans la position désirée. Cette conception s'applique, entre autres, à des hélices de bateaux.

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B63H 1/20; **B63H 3/12**

IPC 8 full level
B63H 1/20 (2006.01); **B63H 3/12** (2006.01)

CPC (source: EP US)
B63H 1/20 (2013.01 - EP US); **B63H 3/12** (2013.01 - EP US)

Citation (search report)
• [A] BE 390294 A
• [A] US 3294176 A 19661227 - FRITZ REIMERS
• [A] GB 171057 A 19211110 - JAMES STEPHENS

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