

Title (en)
CYCLOID THRUSTERS HAVING BLADES WHOSE SHAPE AND ORIENTATION ARE ELASTICALLY MODIFIED BY HYDRODYNAMIC THRUSTS

Title (de)
ZYKLOIDALPROPELLER MIT DURCH HYDRAULISCHE KRÄFTE HINSICHTLICH FORM UND ORIENTIERUNG ELASTISCH VERÄNDERBAREN FLÜGELN

Title (fr)
PROPULSEURS CYCLO DES DONT LA FORME ET L'ORIENTATION DES PALES SONT MODIFIEES ELASTIQUEMENT PAR LES POUSSEES HYDRODYNAMIQUES

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Application
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Abstract (en)
[origin: FR2789048A1] The uniform circular movement of the blades of the cycloid thrusters for watercraft can be broken down into two perpendicular sinusoidal alternative movements. The cross movement is similar to the beating of the caudal fins of fish and swimmers' flippers that create highly beneficial eddies that characterize said propulsion and which can be substantially amplified by making the blades (4) of the cycloid rotors and their attachment (3) elastic. This can be seen more particularly on the cycloid ROTOR LIPP thruster, whereby this similarity is patent. Said elasticity also enables a previously unknown cycloid thruster to be produced in a highly simple manner. Said thruster would not otherwise exist or function without this characteristic. The inventive thrusters enable rudders to be dispensed with.

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