

Title (en)  
New power ship and vessel and/or fluid propulsory systems with new thrust hydrodynamic reaction wheels and/or new thrust hydrodynamic axial flow reaction turbines.

Title (de)  
Strahlangetriebenes Boot und/oder Antriebssystem mit hydrodynamischen Reaktionsrädern und/oder axialen hydrodynamischen Turbinen.

Title (fr)  
Bateau à jet et système de propulsion avec roues à réaction hydrodynamique et/ou turbines axiales hydrodynamiques.

Publication  
**EP 0426604 A1 19910508 (EN)**

Application  
**EP 90600014 A 19900824**

Priority  
GR 89100057 A 19890911

Abstract (en)  
These propulsory systems consist of,one and/or more, single and/or multi-stage,thrust hydrodynamic reaction wheels (TYRW) and/or thrust hydrodynamic axial flow reaction turbines (TYAFRT) ,mounted at any desired place on the vessel all along it. The TYRW resemble to, a wagon wheel,whose spokes are hydrodynamic blades, and/or a conventional propeller, which bears on the circumference of its blades an annular ring,and consist of,an annular ring [1(1),2(1,3,6, 7,8),9(2,3)] properly formed,which bears on its internal surface,in one and/or more stages along it,radially arrayed hydrodynamic blades, and/or conventional propellers [1(2),2(2)],with and/or without various types of hydrodynamic cages [5,6,7,8,9,10(1,2,4),11(1),12(1), 13(1,2,3),14(1,2,3),15(1,2,3),16(1,2,4),17(1,2,3)] and/or hub [3(1),4(1)],within of which hydrodynamic cages they revolve freely (turbines)(13,14,15,16,17). They are driven mainly by their circumference,by the known conventional ways of transferring and/or putting wheels in circular motion by their circumference (5,6, 7,8,9,10,11,12,13,14,15,16,17,20,21),in order to make completely useful the properties of the wheels, benefiting from the mechanical advantage of force which results and having as a result: 1.The conversion of the low torque and high speed of the driving engine, into, high torque and low speed of the thrust hydrodynamic reaction wheel and 2. Making advantageous the using of high speed conventional land engines in ship and vessel propulsion,and 3.Making feasible the installation of more propulsory systems all along the vessel according to the push-pull propulsory system (23,25,28).

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**B63H 1/16** (2013.01); **B63H 11/08** (2013.01); **B63H 2023/005** (2013.01); **B63H 2023/0216** (2013.01)

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