

Title (en)
RING WING-TYPE ACTINIC FLUID DRIVE

Title (de)
KREISFLÜGEL - AKTINISCHER FLUIDANTRIEB (AF)

Title (fr)
AILE CIRCULAIRE - ENTRAÎNEMENT FLUIDIQUE ACTINIQUE (AF)

Publication
EP 2252796 A1 20101124 (DE)

Application
EP 08858729 A 20081202

Priority
• GR 2008000067 W 20081202
• GR 20070100750 A 20071211
• GR 20080100707 A 20081103

Abstract (en)
[origin: WO2009074834A1] Disclosed is an actinic (radial) fluid drive (AF) which can replace any propeller used, e.g. for fans, ventilators, pumps, hydraulic power plants and wind power plants (repeller), watercraft and aircraft (boats, helicopters, etc.) and can also reduce form drag (in tips of rockets, etc.) or wave-making resistance (in bulbous bows of ships, etc.). Said actinic (radial) fluid drive (AF) is at least characterized by: a) a ring wing (11) (annular wing) - like a truncated cone -, the leading edge and trailing edge of which (corresponding to the periphery of the top surface and base of a truncated cone) determine the chord of the ring wing (11) (rectilinear length of the side), said chord forming the angle of inclination (f) of the ring wing along with the plane of the top surface; and b) an actinic main flow (15), the direction (plane) of which forms the angle of attack (?) along with the chord on the leading edge of the ring wing (11), said angle of attack (?) being greater than 0° and smaller than 90°, especially greater than 8°, and the actinic main flow (15) is inclined (thrust is generated) analogous to the angle of attack (?) (as a result of the Coanda effect).

IPC 8 full level
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CPC (source: EP US)
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Citation (search report)
See references of WO 2009074834A1

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Designated extension state (EPC)
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