

Title (en)  
WIND-PROPELLED HYDROFOIL

Title (de)  
TRAGFLÜGELBOOT MIT SEGELN

Title (fr)  
HYDROPTERE A VOILE

Publication  
**EP 0694008 B1 19970102 (FR)**

Application  
**EP 94913156 A 19940412**

Priority  
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Abstract (en)  
[origin: US5673641A] PCT No. PCT/FR94/00404 Sec. 371 Date Dec. 29, 1995 Sec. 102(e) Date Dec. 29, 1995 PCT Filed Apr. 12, 1994 PCT Pub. No. WO94/23989 PCT Pub. Date Oct. 27, 1994A wind-propelled hydrofoil comprising a forward assembly with at least partially submerged forward foils and a fully submerged aft foil. The forward foils (43, 44) are such that the resultant of the vertical forces drops when said assembly is translated vertically upwards, with a heave characteristic (F), and increases when said forward assembly is subject to upward pitching, with an incidence characteristic (A). The aft foil (46) has an incidence characteristic (R) such that  $R(d-g) - Ag + F(g^2 + r^2) > 0$ , wherein d is the distance between the aft foil (46) and the center of heave, g is the distance between the center of gravity and the center of heave, and r is the gyration radius of the hydrofoil.

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IPC 8 full level  
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CPC (source: EP US)  
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**US 5673641 A 19971007**; AU 6541394 A 19941108; AU 680245 B2 19970724; DE 69401350 D1 19970213; DE 69401350 T2 19970430; EP 0694008 A1 19960131; EP 0694008 B1 19970102; FR 2703975 A1 19941021; FR 2703975 B1 19950630; NZ 265077 A 19970922; WO 9423989 A2 19941027; WO 9423989 A3 19941208

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