Title (en)
   AUTO SUCTION HYBRID PUMP

Title (de)
   SELBSTANSAUGENDE HYBRIDPUMPE

Title (fr)
   POMPE HYBRIDE A AMORCAGE AUTOMATIQUE

Publication
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Application
   EP 02787368 A 20021117

Priority
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Abstract (en)
   [origin: WO03048582A1] The invention relates to a hybrid pump (1) with a housing (2) comprising at least one suction port (10) and at least one
   pressure port (11). A rotor (5) is eccentrically arranged in the housing chamber (3) which is substantially enclosed in a circular manner. The rotor
   (5) has a plurality of circumferentially spaced vanes (6) which are radially arranged at least in some segments and are made of a material that
   is resiliently deformable under centrifugal force. The eccentricity (14) of the rotor (5) in relation to the housing chamber (3) and the elasticity of
   the rotor vane (6) are such that in a first phase of low rotational speed, the radially distant end areas (7) of each vane (6) touch only some or no
   circumferential segments (4) of the housing chamber (3) in the course of one rotor (5) rotation, whereas in a second phase of higher rotational
   speed, the radially distant end areas (7) of all vanes (6) touch the inner wall (4) of the housing chamber (3) essentially during the entire rotor (5)
   rotation.

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   F04C 5/00; F04C 2/44

IPC 8 full level
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