

Title (en)
HYDRAULIC TURBOMACHINE

Title (de)
HYDRAULISCHE STRÖMUNGSMASCHINE

Title (fr)
TURBOMACHINE HYDRAULIQUE

Publication
EP 1299642 B1 20051207 (DE)

Application
EP 01967133 A 20010709

Priority
• DE 10034219 A 20000713
• DE 10129830 A 20010625
• EP 0107849 W 20010709

Abstract (en)
[origin: WO0206666A1] The invention relates to a hydraulic turbomachine which is used to convert energy. The aim of the invention is to provide a hydraulic turbomachine which exclusively uses the flow output, affected by atmospheric pressure (pL), of a water column which rises towards a rotor disk (3) in a suction chamber (1), making it available to a consumer in the form of end energy (EN). The inventive hydraulic turbomachine is provided with an annular water circuit flowing in a radial direction with respect to the axis of a generator (6). Said circuit comprises a conducting chamber (7) and is coaxially arranged inside a tub-shaped flow chamber (8) around the axis of the generator (6) in a container (9). The rotor disk (3) rotates horizontally in relation to the axis and the energy difference between supplied and discharged energy on the rotor disk (3) corresponds to the sum of the energy provided by the atmospheric pressure (pL) and the energy provided by the drive motor (Em). The generator (6) is used to make the energy provided by the drive motor (5) available once again.

IPC 1-7
F03B 17/00

IPC 8 full level
F03B 17/00 (2006.01)

CPC (source: EP)
F03B 17/005 (2013.01); **F05B 2200/11** (2013.01)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0206666 A1 20020124; AT E312283 T1 20051215; AU 8758801 A 20020130; DE 50108325 D1 20060112; EP 1299642 A1 20030409; EP 1299642 B1 20051207; ES 2254479 T3 20060616

DOCDB simple family (application)
EP 0107849 W 20010709; AT 01967133 T 20010709; AU 8758801 A 20010709; DE 50108325 T 20010709; EP 01967133 A 20010709; ES 01967133 T 20010709