

Title (en)
Measurement and control procedure for the instantaneous flow of a centrifugal pump

Title (de)
Verfahren und Vorrichtung zur Ermittlung der Fördermenge einer Kreiselpumpe

Title (fr)
Procédé de mesure et de contrôle d'un débit instantané d'une pompe centrifuge

Publication
EP 1180600 B1 20100428 (DE)

Application
EP 01117988 A 20010725

Priority
DE 10039917 A 20000816

Abstract (en)
[origin: EP1180600A2] Pressure measurements taken in a feed system containing the pump are apportioned by an evaluator to capacities determined during initial measuring. Capacity is determined by using the pressure build-up of the pump rotor (5), which is not influenced by pump housing (1) and any guide devices. The build-up is measured at a point near the pump rotor outlet on the pump pressure side and in front of the entry into flow guidance parts. Pressure sensors (7,10) on pressure and suction sides of the rotor are connected to the evaluator (9).

IPC 8 full level
F04D 15/00 (2006.01)

CPC (source: EP)
F04D 15/0088 (2013.01)

Cited by
CN104114873A

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AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

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EP 1180600 A2 20020220; EP 1180600 A3 20061213; EP 1180600 B1 20100428; AT E466194 T1 20100515; CY 1110707 T1 20150610; DE 10039917 A1 20020228; DE 50115457 D1 20100610; DK 1180600 T3 20100816; ES 2342819 T3 20100715; PT 1180600 E 20100701

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