

Title (en)
PRESSURIZING CENTRIFUGAL PUMP

Title (de)
ZENTRIFUGALDRUCKPUMPE

Title (fr)
POMPE CENTRIFUGE À PRESSION

Publication
EP 2233749 A4 20121219 (EN)

Application
EP 07851048 A 20071221

Priority
JP 2007074642 W 20071221

Abstract (en)
[origin: EP2233749A1] [PROBLEMS] To solve the problems of a conventional pressurizing centrifugal pump that an inner peripheral wall, the edge of an outlet, blades, etc. are damaged when a foreign substance is included into a subject fluid and that intense cavitation and a big noise such as a draining sound occurring at the tips of the blades and lowering of pump performance are caused by moving of the fluid through a small gap between the inner peripheral wall and the tips of the blades. [MEANS FOR SOLVING PROBLEMS] In the pressurizing centrifugal pump, the tip of a blade (12) is formed to be low by providing a level difference (36) in the direction of the center from the outer periphery of a blade plate (14) to make the outer periphery of the blade plate (14) close to the inner peripheral wall (11) of a case (4) to form a fluid control space (h) for controlling moving of the fluid to the rear side of the blade and to form a fluid passage space (H) accelerating the passage of the foreign substance (X) included in the fluid between the inner peripheral wall (11) and the tip of the blade (12).

IPC 8 full level
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Citation (search report)

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