

Title (en)  
PUMP AND PUMPING SYSTEM UTILIZING THE SAME

Title (de)  
PUMPE UND PUMPENSYSTEM DAMIT

Title (fr)  
POMPE ET SYSTÈME DE POMPAGE FAISANT APPEL À CETTE POMPE

Publication  
**EP 1974144 A1 20081001 (EN)**

Application  
**EP 07708436 A 20070105**

Priority  
• KR 2007000084 W 20070105  
• KR 20060001913 A 20060106

Abstract (en)  
[origin: WO2007078175A1] Provided are a pumping device and a pumping system utilizing the same. The pumping system includes: a tower, installed at a water intake place, having an internal space section and a water-bearing section disposed on the internal space section; an outlet pipe connecting the water-bearing section and a reservoir installed on land; an intake pipe which communicates with the internal space section, extends to the water intake place from a lower portion of the tower, and has an upward folded end, a hood being installed at the upward folded end; and a pumping device, installed in the tower, pumping water entered into the internal space section via the intake pipe to the water-bearing section and including: a rotary shaft vertically installed in the tower; a rotor including a screw pumping unit and a centrifugal pumping unit disposed on the screw pumping unit, the screw pumping unit including an inner body installed slidably along the rotary shaft and having a shaft bearing and a buoyancy space, an outer body separated from the inner body by a predetermined distance to surround the inner body, and a plurality of wings installed between the inner body and the outer body to form a spiral pumping passage, and the centrifugal pumping unit radially ejecting water pumped by the screw pumping unit under a centrifugal force; and a driver installed in the tower to drive the rotor.

IPC 8 full level  
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