

Title (en)  
WATER PUMP

Title (de)  
WASSERPUMPE

Title (fr)  
POMPE À EAU

Publication  
**EP 2930368 A1 20151014 (EN)**

Application  
**EP 13860855 A 20131121**

Priority  
• JP 2012265496 A 20121204  
• JP 2013081348 W 20131121

Abstract (en)  
A water pump that does not easily drain a liquid stored in a liquid storage space outside is provided. The water pump includes a driving rotary body being drivingly rotated by a drive mechanism, a pump shaft rotating by a power transmission from the driving rotary body, a housing being inserted with the pump shaft, an impeller being fixed at one end side of the pump shaft, an electromagnetic clutch including a clutch portion being disposed at the other end side of the pump shaft, the clutch portion switching on and off the power transmission from the driving rotary body to the pump shaft, a mechanical seal being disposed at a position between the impeller and the clutch portion, the mechanical seal being mounted between the pump shaft and the housing, and the liquid storage space allowing to store the liquid leaking out from a side of the impeller to a side of the clutch portion via the mechanical seal. The electromagnetic clutch includes a yoke holding an electromagnetic coil. The liquid storage space is formed at the housing. The yoke is in contact with the housing.

IPC 8 full level  
**F04D 13/02** (2006.01); **F04D 29/10** (2006.01); **F04D 29/58** (2006.01)

CPC (source: EP)  
**F04D 13/021** (2013.01); **F04D 29/106** (2013.01); **F04D 29/5893** (2013.01); **F05D 2260/6022** (2013.01)

Cited by  
US10393140B2; US11988218B2

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