

Title (en)

Liquid cooling pump

Title (de)

Kühlflüssigkeitspumpe

Title (fr)

Pompe pour liquide de refroidissement

Publication

EP 2573401 A3 20140402 (EN)

Application

EP 12185115 A 20120919

Priority

TW 100217953 U 20110926

Abstract (en)

[origin: EP2573401A2] A liquid-cooling pump has a casing device (10), a driving device (20) and an impeller (30). The casing device (10) has an inlet (111) and an outlet (112). The driving device (20) is mounted in the casing device (10) and has an oil seal (22a) and a shaft seal (22b). The oil seal (22a) and the shaft seal (22b) are adjacent to the outlet (112). The impeller (30) is adjacent to the outlet (112). Therefore, the oil seal (22a) and the shaft seal (22b) adjacent to the outlet (112) are under negative pressure to prevent the oil seal (22a) and the shaft seal (22b) from being directly impacted by water. Then, a tightness degree between the shaft (21) and the shaft seal (22b) is reduced and can prevent an abrasion between the shaft (21) and the shaft seal (22b) and increase the waterproof effect.

IPC 8 full level

F04D 13/06 (2006.01); **F04D 29/42** (2006.01); **F04D 29/58** (2006.01)

CPC (source: EP)

F04D 13/06 (2013.01); **F04D 29/4273** (2013.01); **F04D 29/5806** (2013.01)

Citation (search report)

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- [XI] JP 2005163735 A 20050623 - SHIN MEIWA IND CO LTD
- [XI] GB 2414278 A 20051123 - WEIR PUMPS LTD [GB]
- [A] JP H03206389 A 19910909 - MIURA KANAME
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Cited by

CN106895006A; CN105570147A; DE102014113412B3

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

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EP 12185115 A 20120919; TW 100217953 U 20110926