

Title (en)
INTERNAL-GEAR PUMP

Title (de)
INNENZAHNRADPUMPE

Title (fr)
POMPE À ROUE DENTÉE INTÉRIEURE

Publication
EP 2795128 A2 20141029 (DE)

Application
EP 12813855 A 20121221

Priority
• DE 102011089609 A 20111222
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Abstract (en)
[origin: WO2013092966A2] Internal-gear pump for delivering a fluid, comprising an internal gearwheel (22) with an internal toothed ring, an external gearwheel (24) with an external toothed ring, wherein the teeth (21) of the internal and external gearwheel (22, 24) engage into one another and the internal gearwheel (22) or the external gearwheel (24) is driven, a working chamber (47) which is formed between the internal gearwheel (22) and the external gearwheel (24) and is divided into an inflow working chamber (30) and into an outflow working chamber (31), an inflow channel (28) which opens into the inflow working space (30) for introducing the fluid to be delivered into the inflow working chamber (30), and an outflow channel (29) which opens into the outflow working chamber (31) for discharging the fluid to be delivered out of the outflow working chamber (31), the teeth (21) of the internal gearwheel (22) and the teeth (21) of the external gearwheel (24) in each case have a drive flank (51) and a free flank (52) which lies opposite the drive flank (51), and the drive flanks (51) of the internal and external gearwheel (22, 24) lie on one another in order to transmit a torque from the driven gearwheel (22, 24) to the non-driven gearwheel (22, 24), wherein the geometry of the drive flanks (51) of the internal and/or external gearwheel (22, 24) is configured in such a way that at least two teeth (21) of the internal and external gearwheel (22, 24) lie on one another and, at the tip point (48), there is a spacing or a play between the teeth (21) of the internal gearwheel (22) and the teeth (21) of the external gearwheel (24).

IPC 8 full level
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CPC (source: EP)
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Citation (search report)
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Cited by
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