

Title (en)
ELECTRIC GEAR PUMP

Title (de)
ELEKTRISCHE GETRIEBEPUMPE

Title (fr)
POMPE À ENGRENAGE ÉLECTRIQUE

Publication
EP 3521623 B1 20201007 (EN)

Application
EP 19155225 A 20190204

Priority
JP 2018019575 A 20180206

Abstract (en)
[origin: EP3521623A1] An electric gear pump includes: an electric motor 2 in which a supply of motor current rotates a motor shaft 21; a driving gear 3 that is coupled to the motor shaft 21 to be rotated; a driven gear 4 that is rotated by meshing between outer teeth 31 of the driving gear 3 and outer teeth 41 of the driven gear 4; and a control unit 7 that outputs motor current to control the electric motor 2. When the electric motor 2 that stopped is started and when the rotation of the electric motor 2 is reversed, the control unit 7 executes rotational speed restricting control that suppresses the motor current to restrict the rotational speed of the electric motor 2 at least during an idling period, the idling period being a period until the outer tooth 31 of the driving gear 3 and the outer tooth 41 of the driven gear 4 abut against each other in a rotational direction of the electric motor 2. Selected drawing:

IPC 8 full level
F04C 2/18 (2006.01); **F04C 14/04** (2006.01); **F04C 14/08** (2006.01)

CPC (source: CN EP)
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