

Title (en)  
HYDRAULIC GEARWHEEL MACHINE (PUMP OR ENGINE) IN PARTICULAR INTERNAL-GEARWHEEL MACHINE

Title (de)  
HYDRAULISCHE ZAHNRADMASCHINE (PUMPE ODER MOTOR), INSBESONDERE INNENZAHNRADMASCHINE

Title (fr)  
MACHINE HYDRAULIQUE A ROUES DENTEES (POMPE OU MOTEUR), NOTAMMENT MACHINE A ROUES DENTEES INTERIEURES

Publication  
**EP 0707686 B1 20001018 (DE)**

Application  
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Abstract (en)  
[origin: US5674060A] PCT No. PCT/EP94/02114 Sec. 371 Date Dec. 29, 1995 Sec. 102(e) Date Dec. 29, 1995 PCT Filed Jun. 29, 1994 PCT Pub. No. WO95/02125 PCT Pub. Date Jan. 19, 1995A hydraulic gear machine, in particular an internal gear machine having two gear wheels which mesh with each other in a chamber of a multipart housing, a sealing plate arranged on the side of the two gear wheels axially between them and a housing part, and a pressure field which is present in the housing part on the high-pressure side, is open towards the sealing plate, and is adapted to be acted on by high pressure. The order to provide embodiments of the gear machine which differ in their direction of rotation with the use of many of the same parts, a second pressure field is present in the housing part and the first pressure field is present only on the one side and the second pressure field only on the other side of a center plane which is defined by the axes of rotation of the two gear wheels so that a piece of the housing part is still present between the two pressure fields. Of the two pressure fields of a housing part, only the one pressure field can be acted on by high pressure in the specific counterclockwise or clockwise rotating embodiment. If the same housing part is used in the other embodiment, then the other pressure field is used for pressing the sealing plate against the gear wheels.

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