

Title (en)
VOLUMETRIC MACHINE

Title (de)
VOLUMETRISCHE MASCHINE

Title (fr)
MACHINE VOLUMÉTRIQUE

Publication
EP 3354897 B1 20231129 (EN)

Application
EP 18151079 A 20180110

Priority
IT 201700010437 A 20170131

Abstract (en)
[origin: EP3354897A1] A volumetric machine acting on an operating fluid, comprising: i) a first toothed wheel (21) comprising a first group (210) of teeth that identify interposed between them a first plurality (201) of compartments for the operating fluid; ii) a second toothed wheel (22) comprising a second group (220) of teeth intended to engage with the teeth of the first group (210); iii) a casing (3) that defines a housing (30) for positioning the first and the second toothed wheel (21, 22); iv) a path (4) that extends along a section of said casing (3) and that places in fluid communication at least two compartments of said first plurality (201). The volumetric machine may be a pump and/or a motor. The casing (3) comprises at least a first channel (51) distinct from said path (4). At least in one predetermined configuration assumed by the first wheel (21): - the first channel (51) places in fluid communication a first and a second compartment (211, 212) of said first plurality (201) which are consecutive and at least partially delimited by a same tooth of the first group (210); - at least the first compartment (211) of the first plurality (201) being distinct from compartments of the first plurality (201) licked by said path (4); - said second compartment (212) being licked by the path (4); - said first compartment (211) being placed upstream of the second compartment (212) and of the compartments of the first plurality (201) licked by said path (4).

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