

Title (en)
Pumping unit for rotary vane pump

Title (de)
Pumpeneinheit für Flügelzellenpumpen

Title (fr)
Unité de pompage d'une pompe à palettes

Publication
EP 1995408 B1 20160629 (EN)

Application
EP 07425310 A 20070522

Priority
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Abstract (en)
[origin: EP1995408A1] Pumping unit (10) for rotary vane pumps, in particular for oil pumps, comprising a plurality of vanes (21,22,23) and means adapted to activate their movement. The pumping unit (10) comprises a rotor (16) and a stator (12) having a profile (12a) for vane sliding motion. Each vane (21,22,23) is inserted into a respective diametric opening (16b) provided in the rotor (16) so that the rotor (16) rotation generates the motion of the vanes with the ends (21a,22a,23a) of each vane(21,22,23) that remain in constant contact with the internal profile (12a) of the stator (12), thus defining a desmodromic translation movement of the vane (21,22,23) inside the diametric openings 16b) of the rotor (16). The number Np of the vanes is such that Np#3, these vanes generating a number Nv of compartments (17a) so that Nv=2Np.

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