

Title (en)  
DRY-COMPRESSING VACUUM PUMP

Title (de)  
TROCKENVERDICHTENDE VAKUUMPUMPE

Title (fr)  
POMPE À VIDE À COMPRESSION SÈCHE

Publication  
**EP 3507496 A1 20190710 (DE)**

Application  
**EP 17751770 A 20170814**

Priority  
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Abstract (en)  
[origin: CA3034112A1] A dry-compressing vacuum pump, in particular a screw pump, has two rotor elements (14) which are arranged in a pump chamber (12) and which are each carried by a rotor shaft (22). Two shaft ends of the rotor shafts (22) project through a side wall (28) of the pump housing (10). On the two shaft ends (28) there is arranged in each case one toothed belt pulley (38). Furthermore, a drive device and an electric motor for driving the rotor shaft (22) are provided. According to the invention, the rotor shafts (22) are driven by means of a toothed belt (40). To be able to use a toothed belt for drive purposes, a rotational flank clearance between the two rotor elements (14) of greater than  $\pm 0.75^\circ$ , in particular greater than  $\pm 1^\circ$ , is provided.

IPC 8 full level  
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