

Title (en)  
MACHINE COMPRISING A COMPRESSOR

Title (de)  
MASCHINE MIT EINEM VERDICHTER

Title (fr)  
MACHINE ÉQUIPÉE D'UN COMPRESSEUR

Publication  
**EP 3081817 B1 20210113 (FR)**

Application  
**EP 15163421 A 20150413**

Priority  
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Abstract (en)  
[origin: WO2016165906A1] The invention relates to a machine (50) comprising a chassis (52) comprising at least one functional element (53) and a control unit (54). Said machine comprises an air compressor or water pump (1) integrated into the chassis (52), said air compressor or water pump (1) comprising a frame (2) in which are mounted a stator (4), a rotor (5) that interacts with said stator (4), and comprising a shaft (6), at least one turbine (12) borne by said shaft (6), a supply duct (14) carrying fluid toward the turbine (12), and an outlet duct (16) for compressed fluid, the shaft (6) of the rotor (5) being mounted with the ability to rotate on the frame (2) about an axis (A) by means of a first (7) and of a second (8) bearing, said first (7) and second (8) bearings respectively comprising a respective first (18) and second (22) spherical element provided respectively at a first (9) and a second (10) end of the shaft and arranged so that it is centred with respect to the axis (A) of the shaft (6) and a respective first (20) and second (24) housing provided in the frame (2) having the shape of a cup arranged so that it is centred with respect to the axis (A) of the shaft (6) and designed to support said respective first (18) and second (22) spherical element. Said chassis (52) comprises a fluid inlet designed to supply the air compressor or water pump (1) and a supply circuit (56) designed to carry the compressed fluid to the functional element (53).

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• JP H04137295 U 19921221  
• DE 102012013048 A1 20130117 - DAIMLER AG [DE]  
• US 4925321 A 19900515 - MARUYAMA TERUO [JP], et al

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