

Title (en)
SEAL RING, CYLINDER ARRANGEMENT AND PUMPING/MOTOR ARRANGEMENT

Title (de)
DICHTUNGSRING, ZYLINDERANORDNUNG UND PUMPEN-/MOTORANORDNUNG

Title (fr)
BAGUE D'ÉTANCHÉITÉ, UN AGENCEMENT DE CYLINDRE ET ENSEMBLE DE MOTEUR/DE POMPAGE

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Application
EP 15187887 A 20151001

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Abstract (en)
An example object of the embodiments disclosed is to provide a seal ring, a cylinder arrangement and a pumping arrangement, which is low in cost and reduces buckling forces in the cylinder and pumping arrangement. The seal ring, provided for sealing between a cylinder and a piston is provided with an inner surface and an outer surface, where the outer surface is adapted to seal against an inner surface of a cylinder. The outer surface of the seal ring is provided with a ridge forming the largest outer diameter of the seal ring. The cylinder arrangement comprises a cylinder and a piston arranged to reciprocate in the cylinder, wherein the piston is provided with an upper part having a smaller diameter than a diameter of an annular edge arranged below the upper part, and wherein the seal ring is arranged upon the annular edge and wherein an inner diameter of the seal ring is larger than the diameter of the upper part such that there is a radial play between the upper part and the seal ring. The pumping arrangement comprises an input shaft and a plurality of cylinder arrangements, wherein the cylinders are provided in a circular pattern upon a cylinder plate and the pistons are provided in a corresponding circular pattern upon a piston plate. The piston plate is provided skew towards the cylinder plate such that by rotating the cylinder plate, the pistons reciprocate within their respective cylinder.

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Citation (search report)
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