

Title (en)
PUMP BODY ASSEMBLY, COMPRESSOR AND AIR CONDITIONER

Title (de)
PUMPENKÖRPERANORDNUNG, VERDICHTER UND KLIMAANLAGE

Title (fr)
ENSEMBLE CORPS DE POMPE, COMPRESSEUR ET CLIMATISEUR

Publication
EP 3779198 A1 20210217 (EN)

Application
EP 18932016 A 20181212

Priority

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- CN 2018120667 W 20181212

Abstract (en)

A pump body assembly, a compressor and an air conditioner are provided. The pump body assembly includes a cylinder assembly (30), which is connected to a first flange (10) and a second flange (20) respectively and is disposed between the first flange (10) and the second flange (20); a rotation shaft (40), which is provided and passes through the first flange (10), the cylinder assembly (30) and the second flange (20) in sequence, and which is provided thereon with sliding vane grooves (41); and a sliding vane (50), which is provided inside the sliding vane groove (41) and fits the cylinder assembly (30) to form a working cavity in the cylinder assembly (30). The first flange (10) is provided thereon with an exhaust channel (11) which is in communication with the working cavity, and the second flange (20) is provided thereon with a gas flow balance portion. When the working cavity is in an exhaust state, a gas flow in the cylinder assembly (30) generates a force of a torque (F) at the gas flow balance portion, and the force is applied to an end of the sliding vane (50) away from the exhaust channel (11), so that the sliding vane (50) does not tilt during a working process of the working cavity. In this case, an overturning of the sliding vane (50) is avoided, thereby ensuring reliable operation of a compressor, and effectively reducing a vibration and noise of the compressor.

IPC 8 full level
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