

Title (en)
CENTRIFUGAL COMPRESSOR AND SUPERCHARGER COMPRISING SAME

Title (de)
KREISELVERDICHTER UND AUFLADER DAMIT

Title (fr)
COMPRESSEUR CENTRIFUGE ET TURBOCOMPRESSEUR LE COMPRENANT

Publication
EP 3273068 A1 20180124 (EN)

Application
EP 15886246 A 20150320

Priority
JP 2015058538 W 20150320

Abstract (en)
A housing (40) is formed with an impeller side communicating passage (51) extending from an impeller chamber (45) in a direction including a component of an outer side (Dro) in a radial direction, circulating channels (52) extending from the impeller side communicating passage (51) in a direction including a component of a front side (Daf) in the axial direction, and a suction side communicating passage (55) communicating with the circulating channel (52) and a suction channel (41) that guides a gas into the impeller chamber (45). A radial dimension (Ri) from an axis (Ar) to a communicating position at which each of the circulating channels (52) communicates with the suction side communicating path (55) is larger than a radial dimension (Ro) from the axis (Ar) to a communication position with the impeller side communicating path (51) in the circulating channel (52). A channel area (Ao) of the circulating passage (52) at a communicating position for the suction side communicating passage (55) is larger than a channel area (Ai) of the circulating channel (52) at a communicating position for the impeller side communicating passage (51).

IPC 8 full level
F04D 29/42 (2006.01)

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F04D 29/4213 (2013.01 - EP US); **F04D 29/685** (2013.01 - EP US); **F02B 33/40** (2013.01 - EP US); **F04D 25/04** (2013.01 - US);
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