

Title (en)
MULTISTAGE COMPRESSOR

Title (de)
MEHRSTUFIGER KOMPRESSOR

Title (fr)
COMPRESSEUR MULTI-ÉTAGES

Publication
EP 2479436 A4 20160224 (EN)

Application
EP 10816825 A 20100716

Priority
• JP 2009217571 A 20090918
• JP 2010004620 W 20100716

Abstract (en)
[origin: EP2479436A1] There is provided a multistage compressor that causes lubricating oil separated from an intermediate-pressure refrigerant gas by an oil separation plate to interfere with a stator coil end regardless of the height of a balance weight in which an oil separation plate is provided. The multistage compressor includes an electric motor (4) provided in a sealed housing (10); a low stage-side compression mechanism (2) and a high stage-side compression mechanism (3) which are provided under and over the electric motor (4), respectively, with the electric motor (4) being held therebetween; a balance weight (70) that is formed by a lower segment (71) and an upper segment (72) and assures rotational balance of a rotation shafting including a rotating shaft (7); and an oil separation plate (73) that centrifugally separates lubricating oil (12) contained in the refrigerant gas sucked into the high stage-side compression mechanism (3). On one end side of a rotor (6), the oil separation plate (73) is fixed to the rotor 6 by being held between the lower segment (71) and the upper segment (72).

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Citation (search report)
• [A] WO 2009025244 A1 20090226 - MITSUBISHI HEAVY IND LTD [JP], et al & EP 2177768 A1 20100421 - MITSUBISHI HEAVY IND LTD [JP]
• See references of WO 2011033710A1

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US2015152864A1; CN104728119A; CZ307894B6; EP4008905A1; US11815093B2

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