

Title (en)

Two-stage compressor and two-stage compression system

Title (de)

Zweistufiger Kompressor und zweistufiges Kompressionssystem

Title (fr)

Compresseur à deux étages et système de compression à deux étages

Publication

EP 2685106 B1 20170531 (EN)

Application

EP 13176012 A 20130711

Priority

JP 2012156430 A 20120712

Abstract (en)

[origin: EP2685106A2] A two-stage compressor (1) is an intermediate-pressure-housing type two-stage compressor which includes a low-stage-side compressor (2) and a high-stage-side compressor (3) both provided inside a housing (10), and in which a refrigerant compressed to an intermediate pressure in the low-stage-side compressor (2) is discharged inside the housing (10) and the intermediate-pressure refrigerant is sucked into the high-stage-side compressor (3) and compressed to a high pressure. The low-stage-side compressor (2) is a rotary compressor equipped with a blade (26) partitioning an inside of a cylinder chamber into a suction side and a compression side and the blade reciprocates in response to rotation of a rotor (24). The blade (26) is formed of a material having a density of 3 g/cm³ or less so as to reduce the blade's inertial force in response to a lower back pressure acting on a back surface of the blade.

IPC 8 full level

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CPC (source: EP)

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