

Title (en)

An axial flow fluid compressor and a method of assembling the same.

Title (de)

Verdichter mit axialem Durchfluss und sein Montageverfahren.

Title (fr)

Compresseur à fluide à écoulement axial et son procédé d'assemblage.

Publication

**EP 0435193 B1 19950301 (EN)**

Application

**EP 90125094 A 19901221**

Priority

- JP 9630490 A 19900413
- JP 9843290 A 19900413
- JP 9843790 A 19900413
- JP 33752489 A 19891226

Abstract (en)

[origin: EP0435193A2] A compressor includes a cylinder (7), and a rotating body (8) located in the cylinder. A spiral groove (11) is formed on the outer periphery of the rotating body. A spiral blade (9) is fitted in the groove and divides the space between the inner periphery of the cylinder and the outer periphery of the rotating body into operating chambers (10) which have volumes gradually decreasing with distance from one end of the cylinder. A drive motor (4) rotates the cylinder and the rotating body relative to each other. The drive motor includes a cylindrical stator (17) fixed on a closed casing and a rotor (18) mounted on the cylinder (7) and situated inside the stator (17) coaxially, with a motor air gap provided therebetween. A main bearing (15) is engaged with the axial end portion of the cylinder (7) and fixed on the inner wall of the casing by means of a fixing member (20) situated radially more inward than the stator. The main bearing is fixed on the closed casing, with the position of the main bearing adjusted by a master rotor. <IMAGE>

IPC 1-7

**F04C 18/107**

IPC 8 full level

**F04C 18/344** (2006.01); **F04C 18/107** (2006.01)

CPC (source: EP KR)

**F04C 18/107** (2013.01 - EP); **F04C 18/16** (2013.01 - KR)

Cited by

DE4220830A1

Designated contracting state (EPC)

DE IT

DOCDB simple family (publication)

**EP 0435193 A2 19910703**; **EP 0435193 A3 19920219**; **EP 0435193 B1 19950301**; DE 69017403 D1 19950406; DE 69017403 T2 19950810; KR 910018675 A 19911130; KR 940006866 B1 19940728

DOCDB simple family (application)

**EP 90125094 A 19901221**; DE 69017403 T 19901221; KR 900021889 A 19901226