

Title (en)
SCROLL FLUID MACHINE

Title (de)
SPIRALFLUIDMASCHINE

Title (fr)
MACHINE À FLUIDE À SPIRALE

Publication
EP 2472114 A1 20120704 (EN)

Application
EP 10826303 A 20101021

Priority
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• JP 2010006250 W 20101021

Abstract (en)
A scroll-type fluid machine is configured so that the scroll-type fluid machine has compact, lightweight, and long life characteristics obtained by mounting, without increasing the diameter of the barrel, a bearing having a higher load capacity and so that a degradation in the performance due to a pressure loss during a high flow-rate operation is minimized by providing the gas flow path in the center plate with a sufficient cross-sectional area. A scroll-type fluid machine is provided with: a first housing which contains a scroll mechanism; a second housing which contains an electric motor; and a center plate which is disposed between both the housings, which contains a motion conversion mechanism for converting rotational motion to orbiting motion, which has mounted thereto a rotation prevention mechanism for preventing the rotation of a movable scroll, and which holds the bearing for supporting the main shaft. At least a part of the fluid path, which connects the insides of the first and second housings through the portion at which the center plate is disposed, is configured to connect an axial recess and a radial recess which are formed in the center plate, the axial recess facing the inside of the second housing and extending in the axial direction, the radial recess being located closer to the first housing than the bearing and extending in the radial direction.

IPC 8 full level
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CPC (source: EP KR US)
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