

Title (en)
ROTARY FLUID MACHINE

Title (de)
ROTATIONSSTRÖMUNGSMASCHINE

Title (fr)
MACHINE ROTATIVE À FLUIDE

Publication
EP 2196677 A1 20100616 (EN)

Application
EP 08831266 A 20080912

Priority
• JP 2008002532 W 20080912
• JP 2007238846 A 20070914

Abstract (en)
In a compressor (1) in which compression mechanisms (20, 50) including cylinders (21, 51) with annular cylinder chambers (C1, C2, C3, C4), and annular pistons (22, 52) eccentrically accommodated in the cylinder chambers (C1, C2, C3, C4) are stacked in two tiers, the annular pistons (22, 52) eccentrically rotate with respect to the cylinders (21, 51), and the both piston mechanisms (20, 50) are arranged so as to cause a phase difference in which a swing moment caused in response to an eccentric rotation of the first compression mechanism (20) and a swing moment caused in response to an eccentric rotation of the second compression mechanism (50) cancel out each other. Thus, vibration due to the swing moments caused in the compression mechanisms (20, 50) can be reduced.

IPC 8 full level
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CPC (source: EP)
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Cited by
CN111005871A

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

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