

Title (en)
Suction opening of a screw compressor

Title (de)
Ansaugöffnung eines Schraubenverdichters

Title (fr)
Ouverture d'aspiration d'un compresseur rotatif à vis

Publication
EP 2390508 B1 20180328 (EN)

Application
EP 11167299 A 20110524

Priority
JP 2010118883 A 20100525

Abstract (en)
[origin: EP2390508A2] A screw compressor includes a casing (3) forming a bore (4) for accommodating a male rotor (1) and a female rotor (2) of which lobes mesh with each other, an axial suction port (11) on a suction side of the casing, and a delivery port on a delivery side, the axial suction port configured by a contour line including a line (15) along a male lobe profile and a line (18) along a female lobe profile, and the line (15) along the male lobe profile disposed at a predetermined displacement angle (#f1) toward a rotational direction of the male rotor from a following side contour line position of a male lobe groove (5) at which position the volume of a working chamber (9) formed by the male lobe groove of the male rotor, a female lobe groove (6) of the female rotor and the bore is maximum.

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