

Title (en)  
Suction opening of a screw compressor

Title (de)  
Ansaugöffnung eines Schraubenverdichters

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

Publication  
**EP 2390508 A3 20140924 (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.

IPC 8 full level  
**F04C 18/08** (2006.01); **F04C 18/16** (2006.01); **F04C 29/12** (2006.01)

CPC (source: EP)  
**F04C 18/086** (2013.01); **F04C 18/16** (2013.01); **F04C 29/12** (2013.01); **F04C 2250/101** (2013.01)

Citation (search report)  
• [X] US 2457314 A 19481228 - ALF LYSHOLM  
• [X] US 2481527 A 19490913 - ROBERT NILSSON HANS

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Designated extension state (EPC)  
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**EP 2390508 A2 201111130**; **EP 2390508 A3 20140924**; **EP 2390508 B1 20180328**; CN 102261332 A 20111130; CN 102261332 B 20150114; CN 103541899 A 20140129; CN 103541899 B 20161123; JP 2011247115 A 20111208; JP 5478362 B2 20140423

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