

Title (en)  
ROTARY COMPRESSOR

Title (de)  
ROTATIONSKOMPRESSOR

Title (fr)  
COMPRESSEUR ROTATIF

Publication  
**EP 0686772 A4 19960605 (EN)**

Application  
**EP 95902916 A 19941207**

Priority  
• JP 9402052 W 19941207  
• JP 33247893 A 19931227

Abstract (en)  
[origin: WO9518309A1] A rotary compressor comprising a cylinder (5) having a cylinder chamber (51) having a suction hole (52) and an exhaust hole (53) both formed therein, a roller (7) adapted to fit over an eccentric shaft portion (31) of a driving shaft (3) and to be installed in the cylinder chamber (51), and a blade (9) dividing the interior of the cylinder chamber (51) into a low pressure chamber (X) communicating with a suction port (54) and a high pressure chamber (Y) communicating with an exhaust port (55), wherein the suction hole (52) is formed in the internal circumferential surface of the cylinder chamber (51) in such a manner as to be inclined towards the blade (9) relative to a normal (c) perpendicular to a tangent (b) at the portion where the suction hole (52) is formed. Due to this configuration, the flow resistance caused when gas fluid is sucked from the suction hole (52) into the low pressure chamber (X) of the cylinder chamber (51) is made small, whereby pressure loss in the low pressure chamber (X) of the suction gas can be reduced.

IPC 1-7  
**F04C 29/00**; **F04C 18/356**

IPC 8 full level  
**F04C 18/324** (2006.01); **F04C 29/12** (2006.01)

CPC (source: EP KR)  
**F04C 18/324** (2013.01 - EP); **F04C 18/356** (2013.01 - KR); **F04C 29/00** (2013.01 - KR); **F04C 29/12** (2013.01 - EP);  
**F04C 2250/101** (2013.01 - EP); **F05B 2250/501** (2013.01 - EP)

Citation (search report)  
• [Y] US 2998826 A 19610905 - PETER SADLER  
• [A] GB 277853 A 19270929 - HERMANN WEBER  
• [Y] PATENT ABSTRACTS OF JAPAN vol. 7, no. 187 (M - 236)<1332> 16 August 1983 (1983-08-16)  
• See references of WO 9518309A1

Cited by  
EP0882780A4; US6569347B1

Designated contracting state (EPC)  
DE DK ES FR GB IT

DOCDB simple family (publication)  
**WO 9518309 A1 19950706**; CN 1042851 C 19990407; CN 1118182 A 19960306; DE 69409508 D1 19980514; DE 69409508 T2 19980917; DK 0686772 T3 19990125; EP 0686772 A1 19951213; EP 0686772 A4 19960605; EP 0686772 B1 19980408; ES 2116065 T3 19980701; KR 100322270 B1 20020620; KR 960701307 A 19960224; MY 115326 A 20030531; SG 45400 A1 19980116

DOCDB simple family (application)  
**JP 9402052 W 19941207**; CN 94191269 A 19941207; DE 69409508 T 19941207; DK 95902916 T 19941207; EP 95902916 A 19941207; ES 95902916 T 19941207; KR 19950703562 A 19950821; MY PI9403492 A 19941223; SG 1996005992 A 19941207