

Title (en)  
Compressor

Title (de)  
Kompressor

Title (fr)  
Compresseur

Publication  
**EP 0833054 A2 19980401 (EN)**

Application  
**EP 97307552 A 19970926**

Priority  

- JP 27560796 A 19960926
- JP 27560896 A 19960926
- JP 27560996 A 19960926
- JP 27884296 A 19960930

Abstract (en)  
In an air compressor of this invention, a piston (20) connects to a crankshaft (26) by means of a cross slider crank mechanism and reciprocates in a cylinder (1). Lubricating oil is supplied to a cooling chamber (60) in the piston by way of oil supply passages (44,45,46,48). Lubricating oil is supplied to the sliding surfaces of the slider (30) and slider frame (32) by way of a crankshaft oil supply passage (51) and a slider oil hole (52). The interior of the cylinder (1) and interior of a crankcase (25) are sealed with an oil seal (56) at the middle section of a piston rod (23). A sliding surface of the slider frame (32) which contacts the slider (30) is chromium plated. The compressor also comprises a suction valve (9) and a discharge valve (12) formed in the cylinder head (2), and additionally a further suction valve (93) and a discharge valve (98) formed in the cylinder base (90) to achieve two suction and discharge strokes per cycle. <IMAGE>

IPC 1-7  
**F04B 39/00**

IPC 8 full level  
**F04B 39/02** (2006.01); **F04B 39/06** (2006.01); **F04B 39/10** (2006.01)

CPC (source: EP)  
**F04B 39/02** (2013.01); **F04B 39/06** (2013.01); **F04B 39/1073** (2013.01)

Cited by  
EP3757388A1; CN101832252A; EP1869322A4; US10364810B2

Designated contracting state (EPC)  
DE GB

DOCDB simple family (publication)  
**EP 0833054 A2 19980401**; **EP 0833054 A3 19990721**; **EP 0833054 B1 20030813**; DE 69724064 D1 20030918; DE 69724064 T2 20040603

DOCDB simple family (application)  
**EP 97307552 A 19970926**; DE 69724064 T 19970926