

Title (en)  
PISTON COMPRESSOR

Publication  
**EP 0389414 B1 19930609 (DE)**

Application  
**EP 90810167 A 19900305**

Priority  
CH 108689 A 19890323

Abstract (en)  
[origin: US5030065A] The reciprocating compressor is made with yoke units which connect opposite pairs of pistons while eliminating play between the yoke units and sliding block. Each yoke unit includes a pair of shoes which are removably secured to the pistons and which are adapted to guide the sliding block moved by a crankshaft. Each yoke unit also includes a clamp ring which surrounds the shoes and which biases the shoes towards the sliding block. The shoes are removably secured to the pistons to permit the yoke unit to be readily disassembled. Bow-shaped clamping members may also be employed within each yoke unit to further bias the clamp ring against the shoes.

IPC 1-7  
**F01B 9/02; F04B 27/02**

IPC 8 full level  
**F04B 9/04** (2006.01); **F04B 25/00** (2006.01); **F04B 27/02** (2006.01); **F04B 27/04** (2006.01); **F04B 27/053** (2006.01); **F04B 39/04** (2006.01); **F04B 53/00** (2006.01); **F04B 53/14** (2006.01); **F04B 53/16** (2006.01)

CPC (source: EP US)  
**F04B 9/045** (2013.01 - EP US); **F04B 25/00** (2013.01 - EP US); **F04B 27/02** (2013.01 - EP US); **F04B 27/0428** (2013.01 - EP US); **F04B 27/0538** (2013.01 - EP US); **F04B 39/04** (2013.01 - EP US); **F04B 53/008** (2013.01 - EP US); **F04B 53/147** (2013.01 - EP US); **F04B 53/166** (2013.01 - EP US); **F05C 2201/0454** (2013.01 - EP US); **F05C 2203/08** (2013.01 - EP US); **Y10T 74/18256** (2015.01 - EP US)

Cited by  
DE10321771C5; CN106246491A; EP0836004A3; DE4218631A1; US10859075B2; DE102015015946A1; WO2017097393A1; US11732702B2

Designated contracting state (EPC)  
CH DE FR GB IT LI NL

DOCDB simple family (publication)  
**US 5030065 A 19910709**; AU 5210990 A 19900927; AU 625116 B2 19920702; CA 2012776 A1 19900923; CA 2012776 C 19990824; CH 678881 A5 19911115; DE 59001649 D1 19930715; EP 0389414 A1 19900926; EP 0389414 B1 19930609

DOCDB simple family (application)  
**US 49396490 A 19900313**; AU 5210990 A 19900322; CA 2012776 A 19900322; CH 108689 A 19890323; DE 59001649 T 19900305; EP 90810167 A 19900305