

Title (en)
RECIPROCATING COMPRESSOR

Title (de)
HUBKOLBENVERDICHTER

Title (fr)
COMPRESSEUR À MOUVEMENT ALTERNATIF

Publication
EP 3517781 B1 20210106 (EN)

Application
EP 18204807 A 20181107

Priority
JP 2018013969 A 20180130

Abstract (en)
[origin: EP3517781A1] A reciprocating compressor with an easily replaceable rod packing is provided. This application discloses a reciprocating compressor including a piston rod coupled to a piston that is accommodated within a cylinder and a crank mechanism, and an annular rod packing having an inner peripheral edge in sliding contact with the outer peripheral surface of the piston rod to prevent gas within the cylinder from leaking around the outer peripheral surface of the piston rod. The piston rod includes a first rod portion with which the rod packing is in sliding contact and a second rod portion provided in a manner extending from the leading end of the first rod portion and inserted through an insertion hole that is formed in the piston. The piston is separable from the second rod portion. The diameter of the second rod portion is equal to or smaller than that of the first rod portion.

IPC 8 full level
F04B 39/00 (2006.01); **F04B 39/14** (2006.01); **F04B 53/00** (2006.01); **F04B 53/02** (2006.01); **F04B 53/14** (2006.01); **F04B 53/16** (2006.01); **F04B 53/22** (2006.01)

CPC (source: CN EP KR)
F04B 39/0022 (2013.01 - EP KR); **F04B 39/041** (2013.01 - KR); **F04B 39/14** (2013.01 - CN EP KR); **F04B 53/007** (2013.01 - EP); **F04B 53/02** (2013.01 - EP); **F04B 53/14** (2013.01 - EP); **F04B 53/147** (2013.01 - EP); **F04B 53/16** (2013.01 - EP); **F04B 53/22** (2013.01 - EP); **F05B 2210/12** (2013.01 - KR); **F05B 2240/57** (2013.01 - KR)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3517781 A1 20190731; **EP 3517781 B1 20210106**; CN 110094328 A 20190806; CN 110094328 B 20210910; JP 2019132171 A 20190808; JP 6994397 B2 20220114; KR 102136735 B1 20200722; KR 20190092280 A 20190807

DOCDB simple family (application)
EP 18204807 A 20181107; CN 201910092298 A 20190130; JP 2018013969 A 20180130; KR 20190007953 A 20190122