

Title (en)  
LABYRINTH PISTON COMPRESSOR

Title (de)  
LABYRINTHKOLBENKOMPRESSOR

Title (fr)  
COMPRESSEUR À PISTON À LABYRINTHE

Publication  
**EP 3857068 A1 20210804 (DE)**

Application  
**EP 19783448 A 20190924**

Priority  
• EP 18196407 A 20180924  
• EP 2019075774 W 20190924

Abstract (en)  
[origin: WO2020064781A1] The labyrinth piston compressor (1) comprises a cylinder (10), a piston (20) located in the cylinder (10), and a piston rod (24), the piston rod (24) extending in a longitudinal direction (L) and being connected to the piston (20), the piston (20) being movable back and forth inside the cylinder (10) in the longitudinal direction (L), the cylinder (10) having a first cylinder cover (11), an inlet valve (90) and an outlet valve (91) being located in the first cylinder cover (11), and the inlet valve (90) and the outlet valve (91) being symmetrical with respect to a plane of symmetry (S) running along the piston rod (24) in the longitudinal direction (L).

IPC 8 full level  
**F04B 27/04** (2006.01); **F04B 37/18** (2006.01); **F04B 39/04** (2006.01); **F04B 39/10** (2006.01); **F04B 53/00** (2006.01)

CPC (source: EP KR US)  
**F04B 1/053** (2013.01 - US); **F04B 15/08** (2013.01 - US); **F04B 27/0409** (2013.01 - EP KR); **F04B 27/0423** (2013.01 - EP KR); **F04B 27/0451** (2013.01 - EP KR); **F04B 27/053** (2013.01 - EP KR); **F04B 27/0538** (2013.01 - EP); **F04B 37/18** (2013.01 - EP KR); **F04B 39/0005** (2013.01 - EP KR); **F04B 39/045** (2013.01 - EP KR); **F04B 39/10** (2013.01 - EP KR); **F04B 39/122** (2013.01 - EP KR); **F04B 2015/081** (2013.01 - US); **F05B 2210/12** (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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2020064781 A1 20200402**; CN 113302398 A 20210824; EP 3857068 A1 20210804; EP 3857068 B1 20240522; JP 2022502596 A 20220111; KR 20210063407 A 20210601; US 2021404454 A1 20211230

DOCDB simple family (application)  
**EP 2019075774 W 20190924**; CN 201980076653 A 20190924; EP 19783448 A 20190924; JP 2021516583 A 20190924; KR 20217012307 A 20190924; US 201917279426 A 20190924