Title (en)
    RECIPROCATING COMPRESSOR WITH VENTED DISCHARGE VALVE

Title (de)
    HUBKOLBENVERDICHTER MIT ENTLÜFTETEM AUSLASSVENTIL

Title (fr)
    COMPRESSEUR ALTERNATIF COMPRENANT UNE SOUPAPE DE DÉCHARGE À ÉVENT

Publication
    EP 3341611 A1 20180704 (EN)

Application
    EP 16759940 A 20160825

Priority
• US 201562210105 P 20150826
• US 2016048518 W 20160825

Abstract (en)
    [origin: WO2017035289A1] A compressor (20) comprises: a case (22); and at least one piston (40) mounted for reciprocating movement, each in a respective cylinder (42) of the case. The at least one piston has a peripheral surface (50) and an upper surface (52). At least one discharge valve comprises: a valve element (150) shiftable between a closed condition and an open condition; a valve guide (170); one or more springs (180) held at least partially the valve guide biasing the valve element from the open condition toward the closed condition; and one or more vents (300) in the valve guide providing a flow path from a region above the valve element upward through the valve guide.

IPC 8 full level
    F04B 39/10 (2006.01); **F04B 53/06** (2006.01)

CPC (source: EP US)
    F04B 39/0094 (2013.01 - US); **F04B 39/10** (2013.01 - EP US); **F04B 39/1066** (2013.01 - EP US); **F04B 39/1073** (2013.01 - EP US); **F04B 53/06** (2013.01 - EP US); F25B 2700/1931 (2013.01 - US); F25B 2700/1933 (2013.01 - US); F25B 2700/21157 (2013.01 - US)

Citation (search report)
    See references of WO 2017035289A1

Designated contracting state (EPC)
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