

Title (en)
ROTARY AIR COMPRESSOR

Publication
EP 0277583 A3 19890503 (EN)

Application
EP 88101075 A 19880126

Priority
IT 1923087 A 19870202

Abstract (en)
[origin: EP0277583A2] An air compressor of the rotary type comprising an external body (10) defining the oil chamber (13) and an internal cylindrical body (11) or stator defining an air compression chamber (14) in which a radial fin rotor (15) rotates. The compression or rotor chamber (14) is connected on one side to an air inlet (21) and, on the other, to an exit port (37) through means for separating the oil from the air under pressure, in which the said oil separating means comprises a labyrinth path (38) inside the compressor (10), delimited by diaphragms (40) and annular fins (39) placed in alternating radial planes in the oil chamber (13), and in which the first diaphragm (40) counting from the air exit port (37) from the compression chamber (14), presents an upper part (40a) coplanar with the first fin (39) and extending downwards, on the two sides beyond the air exit port (37) from the compression chamber (14).

IPC 1-7
F04C 29/02

IPC 8 full level
F04C 29/02 (2006.01)

CPC (source: EP)
F04C 29/026 (2013.01)

Citation (search report)

- GB 1134224 A 19681120 - HYMATIC ENG CO LTD
- GB 1334847 A 19731024 - HYDROVANE COMPRESSOR
- US 4441871 A 19840410 - BOLLER EDWARD [GB]
- DE 3445400 A1 19860619 - BLITZ M SCHNEIDER WERKZEUG UND [DE]

Cited by
EP0947232A3; US8500424B2; WO2010012570A3

Designated contracting state (EPC)
AT BE CH DE ES FR GB LI NL SE

DOCDB simple family (publication)
EP 0277583 A2 19880810; EP 0277583 A3 19890503; EP 0277583 B1 19910904; AT E67012 T1 19910915; DE 3864527 D1 19911010; ES 2026579 T3 19920501; IT 1202460 B 19890209; IT 8719230 A0 19870202

DOCDB simple family (application)
EP 88101075 A 19880126; AT 88101075 T 19880126; DE 3864527 T 19880126; ES 88101075 T 19880126; IT 1923087 A 19870202