

Title (en)  
**ROTARY COMPRESSORS**

Publication  
**EP 0050638 B1 19840222 (EN)**

Application  
**EP 81901136 A 19810501**

Priority  
GB 8014662 A 19800502

Abstract (en)  
[origin: WO8103207A1] A rotary oil mist compressor has a rotor stator unit (10, 12) in which, in use, air is compressed and oil is injected into the air. A primary separation means comprising an impingement shield (24) around the stator separates the majority of the entrained oil droplets from the compressed air. Secondary separation means comprising one or more tubular filters (40) separate substantially the remainder of the entrained oil. The pathway between the primary and secondary separation means includes four substantially right angle bends, two of which are at the entry and exit of a secondary separation manifold (38) in which oil is coalesced by the acceleration and turbulence which occurs at each bend and then returned by the compressor pressure for re-use. The oil separation load on the tubular filters is thus reduced and the oil separation efficiency increased.

IPC 1-7  
**F04C 29/02**

IPC 8 full level  
**F04C 29/02** (2006.01)

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

Designated contracting state (EPC)  
DE FR SE

DOCDB simple family (publication)  
**WO 8103207 A1 19811112**; DE 3162344 D1 19840329; EP 0050638 A1 19820505; EP 0050638 B1 19840222; ES 501757 A0 19821101; ES 8300954 A1 19821101; GB 2075597 A 19811118; GB 2075597 B 19831026; HK 97384 A 19841221; IT 8148385 A0 19810430

DOCDB simple family (application)  
**GB 8100079 W 19810501**; DE 3162344 T 19810501; EP 81901136 A 19810501; ES 501757 A 19810429; GB 8014662 A 19800502; HK 97384 A 19841213; IT 4838581 A 19810430