

Title (en)

Compressor for gases containing hydrogen sulfide

Title (de)

Verdichter für Gase mit Schwefelwasserstoffanteilen

Title (fr)

Compresseur pour gaz contenant du sulfure hydrogène

Publication

EP 0846866 B1 20030226 (DE)

Application

EP 97120808 A 19971127

Priority

DE 19650910 A 19961207

Abstract (en)

[origin: DE19650910C1] The especially turbo-compressor has at least one rotor disc (2,3) with cover disc (4) positioned to the left in the direction of flow of the processing gas in the H₂S non-critical range, and with a rotor disc with cover disc to the right in the H₂S critical range. In the H₂S non-critical range the disc diameter of at least one rotor disc increases with the same speed. The apparent yielding point of the rotor disc material is not dropped to the H₂S critical threshold value. In the H₂S critical range, at least one rotor disc (2) is positioned with a smaller disc diameter than that of the first rotor disc (3) and of material with a lower apparent yielding point.

IPC 1-7

F04D 17/12; F04D 23/00; F04D 29/58; F04D 29/28; F04D 29/02

IPC 8 full level

F04D 7/06 (2006.01); **F04D 17/12** (2006.01); **F04D 23/00** (2006.01); **F04D 29/02** (2006.01); **F04D 29/28** (2006.01); **F04D 29/30** (2006.01); **F04D 29/58** (2006.01)

CPC (source: EP US)

F04D 17/122 (2013.01 - EP US); **F04D 23/001** (2013.01 - EP US); **F04D 29/023** (2013.01 - EP US); **F04D 29/284** (2013.01 - EP); **F04D 29/286** (2013.01 - US); **F05D 2300/501** (2013.01 - EP US); **F05D 2300/518** (2013.01 - EP US)

Designated contracting state (EPC)

CH DE FR IT LI NL

DOCDB simple family (publication)

DE 19650910 C1 19980108; DE 59709388 D1 20030403; EP 0846866 A2 19980610; EP 0846866 A3 19990331; EP 0846866 B1 20030226; JP 3712028 B2 20051102; JP H10184585 A 19980714; US 6174131 B1 20010116

DOCDB simple family (application)

DE 19650910 A 19961207; DE 59709388 T 19971127; EP 97120808 A 19971127; JP 36422597 A 19971201; US 98576497 A 19971205