

Title (en)
STATIONARY PISTON COMPRESSOR FOR COMPRESSING NATURAL GAS

Publication
EP 0269882 A3 19880706 (DE)

Application
EP 87116060 A 19871031

Priority
CH 456086 A 19861114

Abstract (en)
[origin: EP0269882A2] The piston compressor driven by an electric motor has four cylinders (1, 2, 3, 4) connected in series on the gas side and each having a piston (7, 12, 28, 32) guided therein. Two pistons (7, 12 and 28, 32) are opposed to one another on a common axis in each case, with their piston rods (8, 13, 29) connected to one another via a yoke (9 or 30) to form a pair. The axes (5, 6) of the two pairs of pistons thus formed intersect one another and each pair of pistons is positioned in an essentially horizontal plane. Engaging in the two yokes (9, 30) of the pairs of pistons by way of a slider (11, 31) is a common crankpin (10) acting as the driving element. The gas to be compressed is fed to that side of the piston remote from the compression chamber (15) of the first compression stage via at least one intake valve (18) located in the piston (7) and the drive motor for the compressor is located beneath the horizontal planes of the two pairs of pistons (7, 12; 28, 32). <IMAGE>

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IPC 8 full level
F04B 25/00 (2006.01); **F04B 27/053** (2006.01); **F04B 35/04** (2006.01); **F04B 39/00** (2006.01)

CPC (source: EP)
F04B 25/00 (2013.01); **F04B 27/053** (2013.01); **F04B 35/04** (2013.01); **F04B 39/0016** (2013.01)

Citation (search report)
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• [A] FR 485398 A 19180104 - PAUL SCHOU [DK]
• [A] FR 837768 A 19390220
• [A] DE 1935532 A1 19700129 - COPELAND REFRIGERATION CORP
• [A] DE 2454956 A1 19760526 - ZLOF DIETER DIPL BETRIEBSW
• [A] US 2517367 A 19500801 - STAMBERGER WINKLER ALMA
• [A] DE 2545998 A1 19760429 - ITURRIAGA NOTARIO LUIS
• [A] PATENT ABSTRACTS OF JAPAN, Band 6, Nr. 213 (M-167)(1091), 26. Oktober 1982; & JP-A-57 119 184 (HITACHI SEISAKUSHO K.K.) 24-07-1982

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EP 0269882 A2 19880608; **EP 0269882 A3 19880706**; AU 1373988 A 19890928; AU 599768 B2 19900726; CA 1301724 C 19920526; CH 671610 A5 19890915

DOCDB simple family (application)
EP 87116060 A 19871031; AU 1373988 A 19880325; CA 550041 A 19871023; CH 456086 A 19861114