

Title (en)
Motor piston compressor unit.

Title (de)
Motor-Kolbenverdichtereinheit.

Title (fr)
Groupe motocompresseur à piston.

Publication
EP 0272229 A1 19880622 (EN)

Application
EP 87850245 A 19870814

Priority
AU 958286 A 19861219

Abstract (en)
A motor-compressor set (1) has a compressor crank case (4) containing two, opposed and rigidly connected piston heads (23 and 24). Each has a central poppet valve whose disc (33) occupies most of the area of the piston. The rim of the piston has a flexible seal (32) which does not require lubrication and seals against the piston wall during the piston's compression stroke, and allows air to flow past the piston during the aspiration close when the piston poppet valve is also open. The compressor is driven by an electric motor 2 having its stator (6) keyed to the crank-case wall and cooled by separate air flow paths provided by two fans (14, 16) leading to a common discharge orifice (15). The set has a high efficiency and is capable of providing non-polluted compressed air at pressures up to 150 p.s.i. Because it is light, it is also readily portable.

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IPC 8 full level
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CPC (source: EP)
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Citation (search report)
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