

Title (en)

HERMETIC RESONANT PISTON POSTED DISPLACER TYPE STIRLING ENGINE COMPRESSOR ALTERNATOR.

Title (de)

HERMETISCH GEKAPSELTER FREIKOLBEN-STIRLINGMOTOR MIT AUF EINEM IN RESONANZ HIN- UND HERSCHWINGENDEN KOLBEN MONTIERTEM VERDRÄNGER.

Title (fr)

COMPRESSEUR-ALTERNATEUR ENTRAINE PAR UN MOTEUR STIRLING DU TYPE A ORGANE DE DEPLACEMENT MONTE SUR UN PISTON RESONNANT HERMETIQUE.

Publication

**EP 0056398 A4 19821116 (EN)**

Application

**EP 81902128 A 19810713**

Priority

- US 16871480 A 19800714
- US 16871580 A 19800714
- US 16871680 A 19800714
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- US 16871880 A 19800714

Abstract (en)

[origin: WO8200320A1] A free-piston Stirling engine includes a hermetically sealed vessel (10) enclosing a working space (12) within which reciprocates a displacer (28). The displacer (28) is mounted at its cold end on a post (116) which reciprocates in a well formed in a transverse partition fixed to the vessel. The relatively reciprocating post (116) and well form a gas spring and also reduce the effective area of the displacer cold end so that power is provided. The thermodynamic system provides this motive power by virtue of the differential areas of the displacer ends and the gas spring to maintain the displacer (28) in oscillation. The post (116) and well guide the displacer (28) for linear low friction movement in the working space (12).

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IPC 8 full level

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