

Title (en)

Refrigeration system with clearance seal and discrete braking element.

Title (de)

Kühlsystem mit einem Spieldichtungselement und mit einem separaten Bremsselement.

Title (fr)

Système frigorifique avec une garniture d'étanchéité à jeu libre et un élément de freinage séparé.

Publication

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Application

EP 81102335 A 19810327

Priority

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Abstract (en)

In a refrigeration system such as a split Stirling system, fluid seals associated with the reciprocating displacer are virtually dragless clearance seals (53, 50). Movement of the displacer relative to the pressure variations in the working volume of gas is retarded by a discrete braking element (60, 62). Because it is not necessary that the brake providing any sealing action, the brake can be designed for greater durability and less dependence on ambient and operating temperatures. Similarly, the clearance seal (53, 59) can be formed of elements having low thermal expansion such that the seal is not temperature dependent. In the primary embodiments the braking element (60, 62) is a split fraction brake.

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F02G 1/053

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

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