

Title (en)  
SCREW COMPRESSOR-EXPANDER CRYOGENIC SYSTEM

Publication  
**EP 0004609 A3 19791031**

Application  
**EP 79100877 A 19790323**

Priority  
US 89467778 A 19780410

Abstract (en)  
[origin: EP0004609A2] Cryogenic refrigeration system employs a power driven screw compressor which delivers pressurized refrigerant gas through a closed system to expand in a screw expander to produce refrigeration. The screw expander is rotatively coupled to the compressor. The screw compressor-screw expander cryogenic system includes heat exchangers and operates in the closed Brayton cycle to produce refrigeration.

IPC 1-7  
**F25B 1/04**; **F25B 9/00**; **F04C 27/00**

IPC 8 full level  
**F04C 23/02** (2006.01); **F04C 18/16** (2006.01); **F04C 27/00** (2006.01); **F25B 1/04** (2006.01); **F25B 1/047** (2006.01); **F25B 9/06** (2006.01)

CPC (source: EP)  
**F04C 27/009** (2013.01); **F25B 1/047** (2013.01); **F25B 9/06** (2013.01); **F25B 2309/06** (2013.01)

Citation (search report)

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DOCDB simple family (publication)  
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**EP 79100877 A 19790323**; IL 5676379 A 19790228; JP 3073985 U 19850304; JP 4191679 A 19790406