

Title (en)  
Cryostat for cryogenic refrigerator and refrigerators comprising such a cryostat

Title (de)  
Kryostat für Tiefsttemperatur-Kälteanlage und Kälteanlagen mit einem solchen Kryostat

Title (fr)  
Cryostat pour refroidisseur cryogenique et refroidisseurs comportant un tel cryostat

Publication  
**EP 0803687 B1 20020626 (FR)**

Application  
**EP 97400898 A 19970422**

Priority  
FR 9605086 A 19960423

Abstract (en)  
[origin: EP0803687A1] At the warm zone, a mounting plate (4), screwed (48) and sealed (19) to the pulsed gas compressor (50), has an integral projecting cylinder (2) with a cold-zone base (22). Against this the cooled item typically an opto-electronic component (21) is held, e.g. by adhesive. An insulating jacket (1), evacuated or gas-filled, encloses the finger (2,22). A ducted (11, 12) block (10) screws into a neck (17), on the plate, fitting into the compressor reservoir chamber. Its integral sleeve (3), with warm and cold-zone heat exchangers (9,8), enters the skirt (2), the annular space between containing a rolled mesh regenerator (5), percolated by gas ducted (61, 39, 42, 43, 46, 45) from the compressor's compression chamber. Fingers for Stirling cycle coolers are similar, but the inner sleeve (3), extending up through the block (10), accommodates the reciprocating displacer piston.

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**F25B 9/14**

IPC 8 full level  
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Cited by  
CN118129389A; FR2821150A1; EP1251320A4; FR2815700A1; EP2767781A1; GB2524893A; US9909787B2; GB2510912B; GB2524893B; US8910486B2; WO2012012785A1

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