

Title (en)

Compressor for use in a transcritical refrigeration cycle system

Title (de)

Kompressor zur Verwendung in einem überkritischen Kältekreislaufsystem

Title (fr)

Compresseur pour utilisation dans un système de réfrigération à cycle transcritique

Publication

EP 0864751 A3 19990421 (EN)

Application

EP 98301867 A 19980312

Priority

JP 7657397 A 19970312

Abstract (en)

[origin: EP0864751A2] A compressor (101) for use in a transcritical refrigeration cycle system, comprises a housing (4), a drive shaft (5) supported rotatably by a bearing (24) within the housing (4), a shaft seal (30, 31) interposed between the housing (4) and the drive shaft (5) so as to prevent a high-pressure fluid consisting essentially of a refrigerant and a lubricating oil from leaking from the compressor (101), and a space (40) in which are received the bearing (24) and the shaft seal (30, 31). Pressure within the space (40) is lower than the discharge pressure of the high-pressure fluid. The housing (4) is formed with a lubricating oil return passage (50) for returning lubricating oil separated from the high-pressure fluid discharged from a discharge port (3a) of the compressor (101, to the space (40). <IMAGE>

IPC 1-7

F04B 39/02

IPC 8 full level

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CPC (source: EP)

F04B 27/1036 (2013.01); **F04B 39/02** (2013.01); **F25B 9/008** (2013.01); **F25B 2309/061** (2013.01)

Citation (search report)

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