

Title (en)
Capacity modulated scroll machine

Title (de)
Verdrängungsregelbare Spiralmaschine

Title (fr)
Machine à spirales avec modulation de la capacité

Publication
EP 0747598 A3 19990120 (EN)

Application
EP 96304219 A 19960606

Priority
• US 47902595 A 19950607
• US 47902695 A 19950607

Abstract (en)
[origin: EP0747598A2] A scroll-type machine comprising: a first scroll member having an end plate and a first spiral wrap upstanding therefrom; a second scroll member having an end plate and a second spiral wrap upstanding therefrom, said first and second scroll members being positioned with said first and second spiral wraps interleaved with each other; a fixed support structure for supporting said first and second scroll members for relative orbital movement therebetween whereby said first and second spiral wraps define sealed moving fluid pockets which progressively decrease in size as they move from a radially outer position to a radially inner position; a power source coupled to said first scroll member and operative to effect said relative orbital movement between said first and second scroll members; and a device selectively actuatable to effect relative radial movement between said first and second scrolls to thereby form a leakage path between said moving fluid pockets while said power source continues to operate whereby the capacity of said compressor is reduced, said device being independent of said coupling of said power source to said first scroll. <IMAGE>

IPC 1-7
F04C 29/10; F04C 18/02

IPC 8 full level
F04C 18/02 (2006.01); **F04C 23/00** (2006.01); **F04C 27/00** (2006.01); **F04C 28/06** (2006.01); **F04C 28/22** (2006.01); **F04C 28/26** (2006.01)

CPC (source: EP)
F04C 18/0215 (2013.01); **F04C 23/008** (2013.01); **F04C 27/005** (2013.01); **F04C 28/06** (2013.01); **F04C 28/22** (2013.01); **F04C 28/265** (2013.01)

Citation (search report)
• [XY] WO 8601262 A1 19860227 - SUNDSTRAND CORP [US]
• [Y] EP 0557023 A1 19930825 - SANDEN CORP [JP]
• [Y] DE 3422398 A1 19851219 - KNORR BREMSE GMBH [DE]
• [Y] US 4604036 A 19860805 - SUTOU MASATSUNE [JP], et al
• [Y] US 5282728 A 19940201 - SWAIN JAMES C [US]
• [A] PATENT ABSTRACTS OF JAPAN vol. 10, no. 204 (M - 499) 17 July 1986 (1986-07-17)

Cited by
EP0854289A1; EP1241417A1; EP2435708A4; US5938419A; US6179590B1; EP0921364A3; CN107923397A; EP3559566A4; EP1698784A1; AU749353B2; FR2780108A1; EP1598611A3; AU2006200256B2; EP2730742A3; EP3415762A1; EP3757392A1; CN114658651A; US10451064B2; US10865792B2; US11965507B1; US10718333B2; US10907633B2; US11434910B2; US8932036B2; US9876346B2; US10352602B2; US7338265B2; USRE42006E; US10041713B1; US9762168B2; US10753352B2; WO2019222535A1; US9638436B2; US10274945B2; US10954940B2; US11635078B2; US10890186B2; US11578725B2; US9823632B2; US10801495B2; US10975868B2; US9703287B2; WO2018119287A1; US10234854B2; US10884403B2; US11415135B2; US10995753B2; US11656003B2; US11754072B2; US10458404B2; US11655818B2; US9669498B2; US9803902B2; US9885507B2; US10335906B2; US10488090B2; US10775084B2; US9765979B2; US10060636B2; US10443863B2; US10962008B2; US11022119B2; US11692548B2; US11767846B2; US11939979B2; US10558229B2; US11655813B2; US11879460B2

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