

Title (en)
Scroll for scroll compressor

Title (de)
Spiralverdichter

Title (fr)
Compresseur à spirales

Publication
EP 0855508 A1 19980729 (EN)

Application
EP 98100894 A 19980120

Priority
JP 962597 A 19970122

Abstract (en)
In a scroll compressor, strength of a spiral wall in a scroll is improved, without deteriorating workability or increasing liquid leakage due to internal compression. A part of a spiral in a mobile scroll (as well as in a fixed scroll) around the central inner end (as well as around the outer end) formed by a curve approaching the origin of an involute forming the inner surface of the spiral and by a curve approaching the origin of an involute forming the outer surface of the spiral is shaped differently from that of conventional examples, its wall being thicker at the base and tapered toward the edge. Therefore, strength of the spiral wall in a scroll is improved as compared with a conventional example, and neither compression nor sealing capacity is affected since neither of the parts of the spiral with tapered walls mentioned above acts as a sealing surface. <IMAGE> <IMAGE>

IPC 1-7
F04C 18/02

IPC 8 full level
F04C 18/02 (2006.01)

CPC (source: EP)
F04C 18/0246 (2013.01); **F04C 18/0269** (2013.01)

Citation (applicant)
• JP S5813184 A 19830125 - SANKYO DENKI CO LTD
• JP H04279785 A 19921005 - TOYODA AUTOMATIC LOOM WORKS
• JP H03225002 A 19911004 - HITACHI LTD

Citation (search report)
• [XY] US 5037279 A 19910806 - SUEFUJI KAZUTAKA [JP], et al
• [XY] EP 0392975 A1 19901017 - AGINFOR AG [CH]
• [A] EP 0106288 A1 19840425 - SANDEN CORP [JP]
• [A] US 5059102 A 19911022 - TOKUMITSU KIYONORI [JP], et al
• [X] PATENT ABSTRACTS OF JAPAN vol. 13, no. 376 (M - 862)<3724> 21 August 1989 (1989-08-21)
• [A] PATENT ABSTRACTS OF JAPAN vol. 8, no. 9 (M - 268)<1446> 14 January 1984 (1984-01-14)

Cited by
EP1227245A3; US6663365B2

Designated contracting state (EPC)
DE FR

DOCDB simple family (publication)
EP 0855508 A1 19980729; JP H10205468 A 19980804

DOCDB simple family (application)
EP 98100894 A 19980120; JP 962597 A 19970122