

Title (en)

Scroll compressor with bypass ports driven by a line fed permanent magnet synchronous type motor.

Title (de)

Spiralverdichter mit Bypass-Anschlüssen angetrieben von einem netzgespeisten Synchronmotor mit Permanentmagnet.

Title (fr)

Compresseur à spirales avec connections de by-pass entraîné par un moteur synchrone à aimants permanents alimenté par le secteur.

Publication

EP 2149708 A2 20100203 (EN)

Application

EP 09251430 A 20090528

Priority

US 18314908 A 20080731

Abstract (en)

A scroll compressor is provided with some capacity reduction technique such as a bypass port. The electric motor for driving the scroll compressor is not an induction motor, but rather a line fed permanent magnet synchronous motor is utilized. Such motors have a higher overall efficiency, and thus will be more efficient at reduced capacity operation.

IPC 8 full level

F04C 18/02 (2006.01); **F04C 29/00** (2006.01)

CPC (source: EP KR US)

F04C 18/02 (2013.01 - KR); **F04C 18/0215** (2013.01 - EP US); **F04C 29/00** (2013.01 - KR); **F04C 29/0085** (2013.01 - EP US); **F04C 27/005** (2013.01 - EP US); **F04C 28/26** (2013.01 - EP US)

Cited by

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

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DOCDB simple family (application)

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