

Title (en)
Drive turbo machine for a machine line, machine line with and drive for drive turbo machine

Title (de)
Getriebeturbomaschine für einen Maschinenstrang, Maschinenstrang mit und Getriebe für Getriebeturbomaschine

Title (fr)
Turbomachine à boîte de vitesse pour un faisceau de machines, faisceau de machines et boîte de vitesse pour une turbomachine à boîte de vitesse

Publication
EP 2128448 A2 20091202 (DE)

Application
EP 09006649 A 20090516

Priority

- DE 102008025695 A 20080529
- DE 102008030103 A 20080625
- DE 102008031116 A 20080701

Abstract (en)
The drive has a drive pinion pivotably connected with a drive shaft. A wheel is in contact with the drive pinion. A set of turbo-machine rotors (3.10-3.30) comprises a turbo-machine shaft for torque transmission to an impeller of a drive turbo-machine i.e. booster compressor (2). An output pinion is in contact with the drive pinion that is pivotably connected with an output shaft for driving a compressor drive shaft (4.1) of a compressor (4) i.e. main compressor, of a machine line. The compressor is separated from the drive turbo-machine. The drive shaft is coupled with the output shaft. The main compressor is a single shaft compressor such as axial-flow compressor, radial compressor with horizontal and/or vertical separation joint, radial isothermal compressor and combined axial radial compressor. Independent claims are also included for the following: (1) a drive turbo-machine for a machine line, comprising an integrated drive (2) a machine line comprising a power supply unit.

Abstract (de)
Ein Maschinenstrang umfasst ein Antriebsaggregat, insbesondere eine Dampfturbine (1) mit axialer Abströmung, einen Getriebeturbomaschine (2) und einem weiteren Kompressor (4), wobei der Getriebeturbomaschine (2) mit integriertem Getriebe ein Antriebsritzel (2.1) zum Antreiben von Turbomaschinenrotoren (3.10,3.20,3.30) über ein Großrad (2.2) und von einem Abtriebsritzel (2.3) eines drehzahluntersetzenden Lastgetriebes zum Antreiben des weiteren Kompressors (4) aufweist.

IPC 8 full level
F04D 25/02 (2006.01); **F04D 25/16** (2006.01)

CPC (source: EP US)
F04D 25/02 (2013.01 - EP US); **F04D 25/163** (2013.01 - EP US); **F05D 2220/72** (2013.01 - US); **F05D 2260/40** (2013.01 - US)

Citation (applicant)

- EP 1691081 A2 20060816 - MAN TURBO AG [DE]
- DE 4241141 A1 19940609 - BHS VOITH GETRIEBETECHNIK GMBH [DE]
- DE 2413674 C2 19841213

Cited by
EP4151835A4; CN104662304A; EP2740941A4; DE102012018468A1; EP2711503A3; US9714658B2; DE202015000883U1; DE102015001418A1; WO2014048644A1; WO2012104153A1; DE102013208564A1; US10100837B2; US9752672B2; DE102012018468B4; DE102015222907A1; US10465769B2; US9631623B2; US11939873B2; EP2902737A2; EP2740941A1; WO2014180688A1

Designated contracting state (EPC)
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)
EP 2128448 A2 20091202; EP 2128448 A3 20170726; EP 2128448 B1 20200624; CN 101592045 A 20091202; CN 101592045 B 20120815; DE 102008031116 A1 20091203; DE 102008031116 B4 20220203; JP 2009287555 A 20091210; JP 4991789 B2 20120801; US 2009297337 A1 20091203; US 8414250 B2 20130409

DOCDB simple family (application)
EP 09006649 A 20090516; CN 200910141842 A 20090526; DE 102008031116 A 20080701; JP 2009124341 A 20090522; US 47344509 A 20090528