

Title (en)
TURBO COMPRESSION SYSTEM

Title (de)
TURBOKOMPRESSIONSSYSTEM

Title (fr)
SYSTÈME DE TURBOCOMPRESSION

Publication
EP 2857692 A4 20160302 (EN)

Application
EP 13796768 A 20130531

Priority
• KR 20120058317 A 20120531
• KR 2013004851 W 20130531

Abstract (en)
[origin: EP2857692A1] Disclosed turbo compression system comprises a first impeller having a first inlet and a first outlet, compressing fluid flowing in through the first inlet by rotation motion and then discharging out through the first outlet; a second impeller having a second inlet and a second outlet, compressing fluid flowing in through the second inlet by rotation motion and then discharging out through the second outlet; a second discharge flow path connected with the second outlet; a first discharge flow path communicating the second discharge flow path with the first outlet; a first valve provided at the first discharge flow path and controlling flowing of the fluid; a second intake flow path connected with the second inlet and selectively making the fluid flow into the second impeller; a second valve provided at one end of the second intake flow path; and a compression flow path connected with the first valve at one end of the compression flow path and connecting with the second intake flow path at the other end of the compression flow path, and has plural design points; the characteristics of two-stage turbo compression system and single-stage dual-intake turbo compression system to be selectively converted.

IPC 8 full level
F04D 19/04 (2006.01); **F04D 17/10** (2006.01); **F04D 17/12** (2006.01); **F04D 25/16** (2006.01); **F04D 27/02** (2006.01); **F04D 29/28** (2006.01)

CPC (source: CN EP KR US)
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F04D 17/10 (2013.01 - CN EP US); **F04D 17/12** (2013.01 - CN EP US); **F04D 19/04** (2013.01 - KR); **F04D 25/16** (2013.01 - EP US);
F04D 27/0269 (2013.01 - CN EP US); **F04D 29/28** (2013.01 - KR)

Citation (search report)
• [XAY] CH 347295 A 19600630 - GUTEHOFFNUNGSHUETTE STERKRADE [DE]
• [XAY] FR 1334393 A 19630809 - RATEAU SOC
• [YA] WO 2009056987 A2 20090507 - DANFOSS TURBOCOR COMPRESSORS B [NL], et al
• [YA] FR 577936 A 19240912 - ERSTE BRUENNER MASCHINEN FAB
• [YA] WO 2010086009 A1 20100805 - GARDNER DENVER DEUTSCHLAND GMB [DE], et al
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• See references of WO 2013180538A1

Designated contracting state (EPC)
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EP 2857692 A1 20150408; EP 2857692 A4 20160302; CN 104364530 A 20150218; JP 2015518113 A 20150625; KR 101360799 B1 20140212;
KR 20130134656 A 20131210; US 2015110606 A1 20150423; WO 2013180538 A1 20131205

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