

Title (en)

METHOD FOR COMPRESSING AN INCOMING FEED AIR STREAM IN A CRYOGENIC AIR SEPARATION PLANT

Title (de)

VERFAHREN ZUM KOMPRIMIEREN EINES EINGEHENDEN ZULUFTSTROMS IN EINER KRYOGENEN LUFTZERLEGUNGSANLAGE

Title (fr)

PROCÉDÉ DE COMPRESSION D'UN COURANT D'AIR ENTRANT D'ALIMENTATION DANS UNE INSTALLATION DE SÉPARATION CRYOGÉNIQUE DE L'AIR

Publication

EP 3362750 A1 20180822 (EN)

Application

EP 16730189 A 20160608

Priority

- US 201514883870 A 20151015
- US 2016036347 W 20160608

Abstract (en)

[origin: WO2017065844A1] A method for compression of an incoming feed air stream using at least two variable speed compressor drive assemblies controlled in tandem is provided. The first variable speed driver assembly drives at least one compression stage in the lower pressure compressor unit driven while the second variable speed driver assembly drives higher pressure compression stage disposed in the split functional compression train of the air separation plant. The first and second variable speed driver assemblies are preferably high speed, variable speed electric motor assemblies each having a motor body, a motor housing, and a motor shaft with one or more impellers directly and rigidly coupled to the motor shaft via a sacrificial rigid shaft coupling.

IPC 8 full level

F25J 3/04 (2006.01); **F04D 17/12** (2006.01); **F04D 25/06** (2006.01); **F04D 25/16** (2006.01); **F04D 27/02** (2006.01)

CPC (source: EP KR US)

F04B 25/00 (2013.01 - EP US); **F04D 17/12** (2013.01 - EP US); **F04D 25/06** (2013.01 - US); **F04D 25/16** (2013.01 - EP US); **F04D 27/004** (2013.01 - US); **F04D 27/0261** (2013.01 - EP US); **F04D 27/0269** (2013.01 - EP US); **F04D 29/266** (2013.01 - EP US); **F25J 3/04018** (2013.01 - EP KR US); **F25J 3/04024** (2013.01 - EP KR US); **F25J 3/0409** (2013.01 - EP KR US); **F25J 3/04133** (2013.01 - EP KR US); **F25J 3/0429** (2013.01 - EP KR US); **F25J 3/04296** (2013.01 - EP KR US); **F25J 3/04303** (2013.01 - EP KR US); **F25J 3/04412** (2013.01 - EP KR US); **F25J 3/04678** (2013.01 - EP KR US); **F25J 3/04781** (2013.01 - EP KR US); **F25J 3/04884** (2013.01 - EP KR US); **F25J 3/04957** (2013.01 - EP US); **F05D 2260/311** (2013.01 - EP US); **F25J 2230/20** (2013.01 - EP US); **F25J 2230/24** (2013.01 - EP US); **F25J 2230/40** (2013.01 - EP US); **F25J 2250/02** (2013.01 - EP US); **Y02B 30/70** (2013.01 - EP)

Citation (search report)

See references of WO 2017065844A1

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2017065844 A1 20170420; BR 112018007010 A2 20181016; CA 3001561 A1 20170420; CN 108139145 A 20180608; EP 3362750 A1 20180822; KR 102091342 B1 20200319; KR 20180066118 A 20180618; MX 2018004425 A 20180815; US 2016032934 A1 20160204

DOCDB simple family (application)

US 2016036347 W 20160608; BR 112018007010 A 20160608; CA 3001561 A 20160608; CN 201680058715 A 20160608; EP 16730189 A 20160608; KR 20187012084 A 20160608; MX 2018004425 A 20160608; US 201514883870 A 20151015