Title (en)
Compressor digital control failure shutdown algorithm

Title (de)
Kompressoralgorithmus zur Abschaltung bei Ausfall der digitalen Steuerung

Title (fr)
Algorithme d'arrêt de compresseur en cas de panne du contrôleur numérique

Publication
EP 2592276 A3 20151118 (EN)

Application
EP 12192128 A 20121109

Priority
US 201161558750 P 20111111

Abstract (en)
[origin: EP2592276A2] A method of controlling the loading and unloading of a scroll compressor includes selectively loading and unloading a scroll compressor by engaging and disengaging, respectively, compressor members with the controller in response to system load data, monitoring at least one of the discharge pressure and the suction pressure at a predetermined time interval for a continuous time period, storing values based on the at least one of the discharge pressure and the suction pressure during the continuous time period, and determining a predetermined value indicative of compressor operation in which the compressor members are engaged. The method further includes comparing at least one of the stored values with the predetermined value and providing a signal to cease operation of the compressor when the comparison fails to indicate compressor operation in which the compressor members are engaged.

IPC 8 full level
F04C 18/02 (2006.01); F04C 28/06 (2006.01); F04C 28/26 (2006.01); F04C 28/28 (2006.01)

CPC (source: EP US)
F04C 18/0215 (2013.01 - EP US); F04C 27/005 (2013.01 - EP US); F04C 28/06 (2013.01 - EP US); F04C 28/26 (2013.01 - EP US); F04C 28/28 (2013.01 - EP US); F04C 2270/18 (2013.01 - EP US)

Citation (search report)
- [A] US 2007144193 A1 20070628 - CRANE CURTIS C [US], et al
- [A] US 2002076332 A1 20020620 - YANG GEORGE [US], et al
- [A] JP 2005282936 A 20051013 - ORION MACHINERY CO LTD
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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)
EP 2592276 A2 20130515; EP 2592276 A3 20151118; AU 2012247071 A1 20130530; BR 102012028915 A2 20150825; US 2013121843 A1 20130516

DOCDB simple family (application)
EP 12192128 A 20121109; AU 2012247071 A 20121109; BR 102012028915 A 20121112; US 201213672759 A 20121109