

Title (en)
COMPRESSOR CYCLING CONTROL FOR VARIABLE FLOW SYSTEMS

Title (de)
VERDICHTERZYKLUSSTEUERUNG FÜR SYSTEME MIT VARIABLER DURCHFLUSSRATE

Title (fr)
RÉGULATION DE CYCLAGE DE COMPRESSEUR POUR SYSTÈMES D'ÉCOULEMENT VARIABLE

Publication
EP 3421904 A1 20190102 (EN)

Application
EP 18179322 A 20180622

Priority
US 201715633333 A 20170626

Abstract (en)
Systems and methods for preventing excessive restarting of compressors (12) in variable primary flow systems operating at low loads, with system embodiments including temperature sensors both upstream and downstream from a heat exchanger (14), using the sensor downstream from the heat exchanger to determine when to stop a compressor and the sensor upstream from the heat exchanger to determine when to start the compressor. Methods may include a delay period between restarting operations of the compressor, or use a soft loading period in which the compressor is operated at a low level to reduce the frequency of starts and stops.

IPC 8 full level
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F04B 49/065 (2013.01 - CN); **F25B 1/00** (2013.01 - EP US); **F25B 25/005** (2013.01 - EP US); **F25B 49/005** (2013.01 - US); **F25B 49/022** (2013.01 - EP US); **F24F 11/30** (2018.01 - EP US); **F25B 2500/26** (2013.01 - EP US); **F25B 2500/27** (2013.01 - EP US); **F25B 2600/0251** (2013.01 - EP US); **F25B 2700/21** (2013.01 - EP US); **F25B 2700/21172** (2013.01 - EP US); **F25B 2700/21173** (2013.01 - EP US)

Citation (search report)
• [XY] EP 2075515 A1 20090701 - MITSUBISHI HEAVY IND LTD [JP]
• [XY] JP 2003336913 A 20031128 - DAIKIN IND LTD
• [Y] EP 3073213 A1 20160928 - MITSUBISHI HEAVY IND LTD [JP]
• [A] KR 20150125782 A 20151110 - HI AIR KOREA CO LTD [KR]
• [A] WO 2014021931 A1 20140206 - PARKER HANNIFIN CORP [US]

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

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