

Title (en)

SOFT START DEVICE FOR COMPRESSED AIR SYSTEMS AND METHOD FOR OPERATING A SOFT START DEVICE

Title (de)

SOFTSTARTVORRICHTUNG FÜR DRUCKLUFTSYSTEME UND VERFAHREN ZUM BETREIBEN EINER SOFTSTARTVORRICHTUNG

Title (fr)

DISPOSITIF DE MISE EN PRESSION PROGRESSIVE DE SYSTÈMES D'AIR COMPRIMÉ ET PROCÉDÉ DE FONCTIONNEMENT D'UN DISPOSITIF DE MISE EN PRESSION PROGRESSIVE

Publication

**EP 2242933 A1 20101027 (DE)**

Application

**EP 08715786 A 20080215**

Priority

EP 2008001164 W 20080215

Abstract (en)

[origin: WO2009100734A1] The invention relates to a soft start device for compressed air systems having a primary inlet (P1) that can have compressed air fed thereto under primary pressure, wherein the primary inlet (P1) is connected to a secondary outlet (P2) that can be coupled to at least one consumer by means of a valve circuit that can have compressed air discharged therefrom under secondary pressure, wherein the secondary pressure is less than or equal to the primary pressure, wherein a main valve of type 2/2 (normally closed) that can be bypassed by means of a bypass (17) is connected between the primary inlet (P1) and the secondary outlet (P2), wherein a throttle device (13) is connected in the bypass (17), wherein the main valve (WV5) and throttle device (13) and further valves (WV1, WV3, WV4, WV5, WV6) of the valve circuit are connected to each other, and the valve circuit can be set to a standard venting setting, such that the secondary outlet (P2) is vented, wherein the valves (WV1, WV3, WV4, WV5, WV6) of the valve circuit are connected to each other such that, in addition to the standard venting setting, a plurality of further venting settings are possible, wherein each of the further venting settings result when any arbitrary one of the existing valves (WV1, WV3, WV4, WV5, WV6) has a fault during the actuation process normally bringing about the standard venting setting.

IPC 8 full level

**F15B 11/068** (2006.01); **F15B 19/00** (2006.01); **F15B 20/00** (2006.01)

CPC (source: EP US)

**F15B 11/068** (2013.01 - EP US); **F15B 19/005** (2013.01 - EP US); **F15B 20/008** (2013.01 - EP US); **F15B 2211/30525** (2013.01 - EP US); **F15B 2211/329** (2013.01 - EP US); **F15B 2211/40507** (2013.01 - EP US); **F15B 2211/40515** (2013.01 - EP US); **F15B 2211/41572** (2013.01 - EP US); **F15B 2211/428** (2013.01 - EP US); **F15B 2211/455** (2013.01 - EP US); **F15B 2211/634** (2013.01 - EP US); **F15B 2211/6355** (2013.01 - EP US); **Y10T 137/0318** (2015.04 - EP US); **Y10T 137/8376** (2015.04 - EP US); **Y10T 137/86614** (2015.04 - EP US); **Y10T 137/86928** (2015.04 - EP US); **Y10T 137/87322** (2015.04 - EP US); **Y10T 137/87917** (2015.04 - EP US)

Citation (search report)

See references of WO 2009100734A1

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**WO 2009100734 A1 20090820**; CA 2715222 A1 20090820; CA 2715222 C 20140930; EP 2242933 A1 20101027; EP 2242933 B1 20130109; US 2011277843 A1 20111117; US 8567442 B2 20131029

DOCDB simple family (application)

**EP 2008001164 W 20080215**; CA 2715222 A 20080215; EP 08715786 A 20080215; US 86671308 A 20080215