

Title (en)

Supply and discharge adjusting apparatus and supply and discharge adjusting system

Title (de)

Versorgung- und Ablasseinstellungsvorrichtung und Versorgung- und Ablasseinstellungssystem

Title (fr)

Appareil de réglage d'alimentation et de décharge et système de réglage d'alimentation et de décharge

Publication

**EP 2518332 A1 20121031 (EN)**

Application

**EP 12162083 A 20120329**

Priority

JP 2011101374 A 20110428

Abstract (en)

A supply and discharge adjusting apparatus (3) includes: a main unit (30) formed with a main passage (331) to communicate a first port (31) and a second port (32); and a speed controller (5) including a needle valve (7) arranged to adjust a discharge amount of a fluid flowing in the main passage (331) with respect to the main unit (30). A bypass passage (332) is formed in the main unit (30) with respect to the main passage (331). The apparatus further includes a relief valve (6) arranged to adjust a discharge amount of a fluid flowing in the bypass passage (332).

IPC 8 full level

**F15B 11/04** (2006.01); **F16K 17/06** (2006.01); **F16K 47/02** (2006.01)

CPC (source: EP)

**F15B 11/0413** (2013.01); **F15B 2211/40515** (2013.01); **F15B 2211/40584** (2013.01); **F15B 2211/41527** (2013.01); **F15B 2211/473** (2013.01); **F15B 2211/50518** (2013.01); **F15B 2211/5153** (2013.01); **F15B 2211/8855** (2013.01)

Citation (applicant)

- JP 2000120921 A 20000428 - FUJIKURA RUBBER LTD
- JP 2009180338 A 20090813 - CKD CORP

Citation (search report)

- [X] US 6296013 B1 20011002 - HOSONO MASAYUKI [JP], et al
- [X] US 4917001 A 19900417 - YOSHIKAWA AKIHISA [JP], et al
- [X] FR 2458841 A1 19810102 - MAC VALVES INC
- [X] US 4262695 A 19810421 - IIZUMI TOMOMITSU

Cited by

CN113710369A; CN108105436A; US11458834B2

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 2518332 A1 20121031**; JP 2012233512 A 20121129; JP 5728288 B2 20150603

DOCDB simple family (application)

**EP 12162083 A 20120329**; JP 2011101374 A 20110428