

Title (en)
FLUID CONTROL DEVICE WITH A FLUID DISCHARGE STRUCTURE

Title (de)
FLÜSSIGKEITSSTEUERUNGSVORRICHTUNG MIT EINER FLÜSSIGKEITSAUSTRITTSSTRUKTUR

Title (fr)
DISPOSITIF DE COMMANDE DE FLUIDE AVEC UNE STRUCTURE DE DÉCHARGE DE FLUIDE

Publication
EP 2275653 A1 20110119 (EN)

Application
EP 09728661 A 20090128

Priority
• JP 2009000313 W 20090128
• JP 2008095798 A 20080402

Abstract (en)
A fluid discharge structure for a fluid control device enables air bleeding to be performed simply and reliably by providing a simply-structured air bleeding part for bleeding air from a coolant passage. An air bleeding part for discharging fluid provided to an upper part of a housing of the device is composed of a cock retention hole that opens at an upper end of the housing, an air bleeding cock that is slidably retained in the cock retention hole and in which a cock outer end is subjected to pressing operation, an air bleeding hole that causes a part of the cock retention hole to be opened in a longitudinal direction to an outside of the housing, and a spring part for constantly causing the air bleeding cock to be biased upward for protruding the cock outer end upward. The air bleeding cock and the cock retention hole together configure an air bleeding circuit which normally blocks communication between a coolant passage and an air bleeding hole by causing the air bleeding cock to protrude upward, and allows communication between the coolant passage and the air bleeding hole when the cock outer end is pressed.

IPC 8 full level
F01P 11/00 (2006.01); **F01P 7/16** (2006.01); **G05D 23/12** (2006.01)

CPC (source: EP)
F01P 7/16 (2013.01); **F01P 11/0285** (2013.01)

Cited by
WO2014016554A1

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 MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2275653 A1 20110119; **EP 2275653 A4 20131002**; **EP 2275653 B1 20141217**; CN 102084099 A 20110601; CN 102084099 B 20130925; JP 2009250052 A 20091029; JP 5102681 B2 20121219; TW 200942685 A 20091016; TW I437161 B 20140511; WO 2009122638 A1 20091008

DOCDB simple family (application)
EP 09728661 A 20090128; CN 200980104723 A 20090128; JP 2008095798 A 20080402; JP 2009000313 W 20090128; TW 98105241 A 20090219