Title (en)
   CONFLUENCE CONTROL SYSTEM

Title (de)
   KONFLUENZSTEUERSYSTEM

Title (fr)
   SYSTÈME DE RÉGULATION DE CONFLUENCE

Publication
   EP 2246576 A1 20101103 (EN)

Application
   EP 08871487 A 20081218

Priority
   • JP 2008073087 W 20081218
   • JP 2008011186 A 20080122

Abstract (en)
   There is provided a confluence control system capable of switching smooth transfer between single drive and confluent drive without any shock. When a flow rate is reduced to a necessary value or less by cut-off characteristics, operation of a second variable flow rate control device 2 is stopped to save energy. An operation quantity distribution unit 51 drives only a first motor 12 by a first velocity signal V1 through a first driver 13, when an operation quantity Vq from a pressure flow rate control unit 40 is at or lower than a maximum velocity Vmax1 of the first motor 12. When the operation quantity Vq exceeds the maximum velocity Vmax1 of the first motor 12, the operation quantity distribution unit 51 drives the first motor 12 at the maximum velocity Vmax1 through the first driver 13, and drives a second motor 22 by a second velocity signal V2 (V2 = Vq - Vmax1) through a second driver 23. As a result, the confluence control system can make smooth transfer from the single drive to the confluent drive without any shock.

IPC 8 full level
   F15B 11/02 (2006.01); **F15B 11/17** (2006.01)

CPC (source: EP)
   F15B 11/17 (2013.01); F15B 2211/20515 (2013.01); F15B 2211/20538 (2013.01); F15B 2211/20553 (2013.01); F15B 2211/20576 (2013.01); F15B 2211/255 (2013.01); F15B 2211/26 (2013.01); F15B 2211/2654 (2013.01)

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)
   EP 2246576 A1 20101103; **EP 2246576 A4 20131120**; **EP 2246576 B1 20170719**; CN 101910646 A 20101208; CN 101910646 B 20130731; JP 2009174572 A 20090806; JP 4548488 B2 20100922; KR 101143022 B1 20120514; KR 20100098716 A 20100908; TW 200934959 A 20090816; TW I371534 B 20120901; WO 2009093399 A1 20090730

DOCDB simple family (application)
   EP 08871487 A 20081218; CN 200880125314 A 20081218; JP 2008011186 A 20080122; JP 2008073087 W 20081218; KR 20107016455 A 20081218; TW 97151256 A 20081229