

Title (en)

Method of controlling a cyclically commutated hydraulic pump

Title (de)

Verfahren zur Steuerung einer zyklisch kommutierten hydraulischen Pumpe

Title (fr)

Procédé de contrôle de pompe hydraulique commutée cycliquement

Publication

**EP 2055948 A1 20090506 (EN)**

Application

**EP 08016531 A 20080919**

Priority

- EP 07254332 A 20071101
- EP 07254337 A 20071101
- EP 07254331 A 20071101
- EP 07254333 A 20071101
- EP 08016531 A 20080919

Abstract (en)

When employing synthetically commutated hydraulic pumps (1), a time delay between a change in fluid flow demand (15) and the resulting fluid flow output (13) can be observed. It is suggested to use a time evolvment function, taking into account the time evolvment of the fluid flow demand and/or the time evolvment of the pumping strokes, to modify the actuation of the electrically commutated valves. The time evolvment function comprises a vectorised variable being indicative of the time dependency of the fluid output flow during a pumping stroke.

IPC 8 full level

**F04B 7/00** (2006.01); **F01B 25/02** (2006.01); **F01B 25/10** (2006.01); **F04B 49/06** (2006.01); **F04B 49/22** (2006.01)

CPC (source: EP)

**F01B 25/02** (2013.01); **F01B 25/10** (2013.01); **F04B 7/0076** (2013.01); **F04B 11/005** (2013.01); **F04B 49/06** (2013.01); **F04B 49/243** (2013.01); **F04B 2201/0601** (2013.01); **F04B 2205/09** (2013.01); **F04B 2205/13** (2013.01)

Citation (applicant)

- EP 0494236 B1 19951213 - ARTEMIS INTELLIGENT POWER LTD [GB]
- WO 9105163 A1 19910418 - UNIV EDINBURGH [GB]
- US 4321014 A 19820323 - EBURN JR WILLIAM H, et al
- EP 1537333 B1 20060614 - ARTEMIS INTELLIGENT POWER LTD [GB]

Citation (search report)

- [DA] EP 1537333 B1 20060614 - ARTEMIS INTELLIGENT POWER LTD [GB]
- [DA] US 4321014 A 19820323 - EBURN JR WILLIAM H, et al
- [DA] WO 9105163 A1 19910418 - UNIV EDINBURGH [GB]
- [DA] EP 0494236 B1 19951213 - ARTEMIS INTELLIGENT POWER LTD [GB]

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)

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DOCDB simple family (application)

**EP 08016530 A 20080919**; AT 08016530 T 20080919; AT 08016531 T 20080919; DE 602008001854 T 20080919; DE 602008001855 T 20080919; EP 08016531 A 20080919; EP 08016532 A 20080919; EP 08016533 A 20080919