

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 2055947 A1 20090506 (EN)**

Application

**EP 08016530 A 20080919**

Priority

- EP 07254332 A 20071101
- EP 07254337 A 20071101
- EP 07254331 A 20071101
- EP 07254333 A 20071101
- EP 08016530 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 low 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 said time evolvment function comprises a variable being indicative of a fluid flow demand, wherein a threshold level of said variable is chosen in a way that a pumping/motoring stroke is initiated in advance of the actual demand.

IPC 8 full level

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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]

Cited by

GB2477997A; JP2012523515A; GB2477997B; AU2018204487B1; US9739266B2; US9133838B2; US9133839B2; US9010104B2; US9797393B2; US9828986B2

Designated contracting state (EPC)

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DOCDB simple family (application)

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