



G00002

(12) INTERNATIONAL APPLICATION PUBLISHED ACCORDING TO THE AGREEMENT CONCERNING
INTERNATIONAL COOPERATION IN THE AREA OF PATENTS (PCT)

(19) International Office

World Organization for
Intellectual Property

(43) International publication date
15 August 2002 (15.08.2002)

PCT

(10) International publication number
WO 02/063191 A1

(51) International patent classification⁷: F16K 31/00,
11/07

(21) International file number: PCT/EP01/12550

(22) International application date:
30 October 2001 (30.10.2001)

(25) Submission language: German

(26) Publication language: German

(30) Priority data:
201 02 168.4 11 February 2001 (08.02.2001) DE

(71) Applicant (for all contracting states with the exception of the
US): COOPER CAMERON CORPORATION [US/US]; Suite 1200,
515 Post Oak Boulevard, Houston TX 77027 (US).

(72) Inventor; and

(75) Inventor/applicant (only for US): BIESTER, Klaus
[DE/DE]; am Maschsee 2, 29342 Wienhausen (DE).

(74) Attorney: GREUNECKER, KINKELDEY, STOCKMAIR &
SCHWANHAUESSER; Maximilianstrasse 58, 80538
Munich (DE).

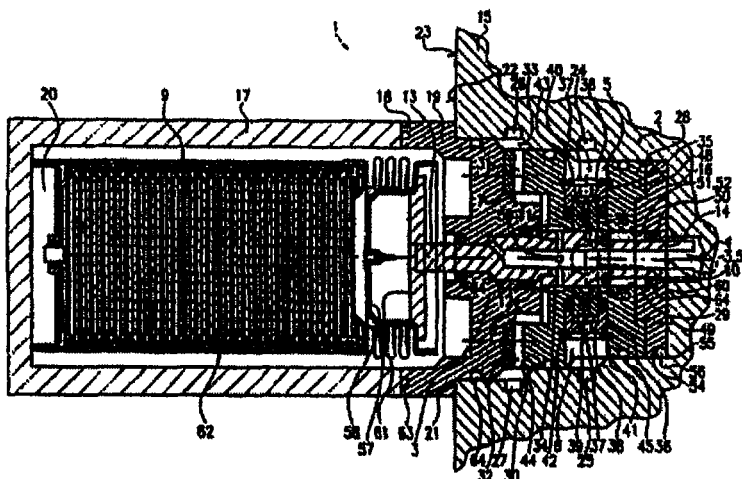
(81) Designated contracting states (national): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR,

(continued on next page)

(54) Title: Valve System



162162



(57) Abstract: The invention relates to a valve system (1) with at least one valve body (2) and a longitudinal slide (3) slidably disposed therein which establishes or disrupts a connection between a feed line (4) and at least one inlet (5, 6) or outlet (7, 8) in the valve body (2). The valve system further comprises an electrochemically driven actuator (9) that displaces the longitudinal slide. The aim of the invention is to improve the valve system by simplifying the design of the valve body and the longitudinal slide and to provide a secure and reproducible connection between the inlet/outlet and the feed line in order to feed a corresponding actuating device with a hydraulic fluid. To this end, the longitudinal slide (3) has a longitudinal bore (10) connected to the feed line (4), which can be linked with the inlet (5, 6) or outlet (7, 8) via at least one connecting line (11, 12) that substantially extends radially outward from the longitudinal bore by displacing the longitudinal slide (3) by means of the actuator (9).

(continued on next page)

WO 02/063191 A1

CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

Published:

- with international search report

(84) Contracting states (regional): ARIPO-Patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian Patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European Patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI Patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Please refer to the explanations ("Guidance Notes on Codes and Abbreviations") at the beginning of each regular edition of the PCT Bulletin for explaining the two-letter codes and the other abbreviations.
