

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 April 2004 (15.04.2004)

PCT

(10) International Publication Number
WO 2004/030860 A2

(51) International Patent Classification⁷: **B24B**
(21) International Application Number:
PCT/US2003/028397
(22) International Filing Date:
10 September 2003 (10.09.2003)
(25) Filing Language: English
(26) Publication Language: English
(30) Priority Data:
10/065,275 30 September 2002 (30.09.2002) US
(71) Applicant (for all designated States except US): **EMERSON ELECTRIC CO.** [US/US]; 8000 West Florissant, St. Louis, MO 63136 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, 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, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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

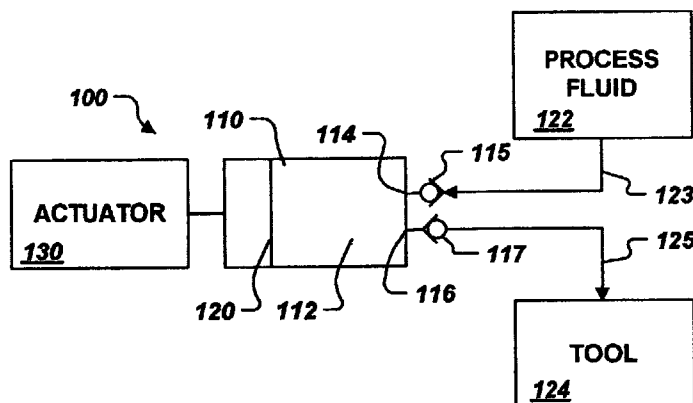
(72) Inventor; and
(73) Inventor/Applicant (for US only): **WHEELER, Matthew, G.** [US/US]; 803 Eugene Street, Hood River, OR 97031 (US).
(74) Agent: **GLEASON, Mark, L.**; Howrey Simon Arnold & White LLP, 750 Bering Drive, Houston, TX 77057-2198 (US).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: FLOW CONTROL SYSTEM



(57) Abstract: A flow control system includes a substantially rigid vessel with a process fluid reservoir situated in the rigid vessel is in fluid communication with an outlet. A movable member and/or a working fluid is situated in the rigid vessel so as to selectively expel process fluid from the outlet. Where a movable member is employed, movement of the movable member in a first direction causes process fluid to be drawn into an inlet and movement of the movable member in a second direction causes process fluid to be expelled from the outlet. In other implementations, the working fluid is metered into a working fluid reservoir to compress a flexible process fluid reservoir and expel process fluid therefrom.

WO 2004/030860 A2