

# (12) International Application Status Report

**Received at International Bureau:** 15 November 2019 (15.11.2019)

**Information valid as of:** 09 September 2020 (09.09.2020)

**Report generated on:** 23 September 2020 (23.09.2020)

**(10) Publication number:**

WO2020/111559

**(43) Publication date:**

04 June 2020 (04.06.2020)

**(26) Publication language:**

Korean (KO)

**(21) Application Number:**

PCT/KR2019/015013

**(22) Filing Date:**

07 November 2019 (07.11.2019)

**(25) Filing language:**

Korean (KO)

**(31) Priority number(s):**

10-2018-0151916 (KR)

**(31) Priority date(s):**

30 November 2018 (30.11.2018)

**(31) Priority status:**

Priority document received (in compliance with PCT Rule 17.1)

**(51) International Patent Classification:**

**H01F 7/16** (2006.01); **H01F 7/08** (2006.01); **H01F 7/10** (2006.01); **H01F 7/18** (2006.01)

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**(54) Title (EN):** BROADBAND ACTUATOR

**(54) Title (FR):** ACTIONNEUR À LARGE BANDE

**(54) Title (KO):** 광대역 액추에이터

**(57) Abstract:**

**(EN):** A broadband actuator according to an embodiment may comprise: a cylindrical housing having an inner space; a yoke member installed in the inner space and provided with a cylindrical inner yoke that protrudes upward from the center of the lower side of the inner space; a hollow radial magnet installed to surround the outer circumferential surface of the inner yoke; a moving body provided with a cylindrical mass installed to surround the outer circumferential surface of the radial magnet, and provided with a coil part installed along the circumference of the mass; and an elastic member elastically supporting the moving body from one side of the inner space.

**(FR):** Un actionneur à large bande selon un mode de réalisation de la présente invention peut comprendre : un boîtier cylindrique ayant un espace interne ; un élément de culasse installé dans l'espace interne et pourvu d'une culasse interne cylindrique qui fait saillie vers le haut à partir du centre du côté inférieur de l'espace interne ; un aimant radial creux installé de façon à entourer la surface circonférentielle externe de la culasse interne ; un corps mobile pourvu d'une masse cylindrique installée de façon à entourer la surface circonférentielle externe de l'aimant radial, et pourvu d'une partie de bobine installée le long de la circonférence de la masse ; et un élément élastique soutenant élastiquement le corps mobile d'un côté de l'espace interne.

**(KO):** 일 실시 예에 따른 광대역 액추에이터는, 내부 공간을 갖는 원통 형상의 하우징; 상기 내부 공간에 설치되고, 상기 내부 공간의 하측의 중심으로부터 상측으로 돌출된 원기둥 형상의 내부 요크를 구비하는 요크 부재; 상기 내부 요크의 외주면을 감싸도록 설치되는 중공 형상의 래디얼 마그넷; 상기 래디얼 마그넷의 외주면을 감싸도록 설치되는 원통 형상의 질량체와, 상기 질량체의 둘레를 따라 설치되는 코일부를 구비하는 운동체; 및 상기 내부 공간의 일측으로부터 상기 운동체를 탄성 지지하는 탄성 부재를 포함할 수 있다.

**International search report:**

**International Report on Patentability (IPRP) Chapter II of the PCT:**

Not available

**(81) Designated States:**

AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

European Patent Office (EPO) : AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR

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Eurasian Patent Organization (EAPO) : AM, AZ, BY, KG, KZ, RU, TJ, TM