

# (12) International Application Status Report

**Received at International Bureau:** 08 April 2020 (08.04.2020)

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

**Report generated on:** 27 January 2021 (27.01.2021)

**(10) Publication number:**

WO2020/203980

**(43) Publication date:**

08 October 2020 (08.10.2020)

**(26) Publication language:**

Japanese (JA)

**(21) Application Number:**

PCT/JP2020/014582

**(22) Filing Date:**

30 March 2020 (30.03.2020)

**(25) Filing language:**

Japanese (JA)

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

2019-067739 (JP)

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

29 March 2019 (29.03.2019)

**(31) Priority status:**

Priority document received (in compliance with PCT Rule 17.1)

**(51) International Patent Classification:**

C22C 23/04 (2006.01); C22F 1/00 (2006.01); C22F 1/06 (2006.01)

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**(54) Title (EN):** MAGNESIUM ALLOY SHEET WITH EXCELLENT BALANCE BETWEEN STRENGTH AND DUCTILITY AND WORKABILITY AT ORDINARY TEMPERATURE

**(54) Title (FR):** FEUILLE D'ALLIAGE DE MAGNÉSIUM DOTÉE D'UN EXCELLENT ÉQUILIBRE ENTRE LA RÉSISTANCE ET LA DUCTILITÉ, ET D'UNE EXCELLENTE APTITUDE AU FAÇONNAGE À DES TEMPÉRATURES ORDINAIRES

**(54) Title (JA):** 強度-延性バランスと常温加工性に優れたマグネシウム合金板

**(57) Abstract:**

**(EN):** The present invention addresses the problem of providing a magnesium alloy sheet that can be shaped at ordinary temperatures and has an excellent balance between strength and ductility. The aforementioned problem can be solved by a magnesium alloy sheet comprising, by mass%, 2.4-5.0% of Zn, 0.3-2.0% of Ca, 0.0% to less than 1.5% of Al, with the Zn/Ca ratio falling within a range satisfying 2.0 to 14.0, and the balance magnesium and inevitable impurities, or by a magnesium alloy

sheet further containing 0.0% to less than 0.5% of Sn and/or 0.0% to less than 1.7% of Mn in addition to the aforementioned composition.

**(FR):** L'invention concerne une feuille d'alliage de magnésium pouvant être façonnée à des températures ordinaires et dotée d'un excellent équilibre entre la résistance et la ductilité. La feuille d'alliage de magnésium selon l'invention comprend, en % en masse, de 2,4 à 5,0 % de Zn, de 0,3 à 2,0 % de Ca, 0,0 % ou moins de 1,5 % d'Al, le rapport Zn/Ca se trouvant dans une plage allant de 2,0 à 14,0, et le reste étant constitué de magnésium et d'impuretés inévitables. La feuille d'alliage de magnésium selon l'invention peut également comprendre 0,0 % ou moins de 0,5 % de Sn et/ou 0,0 % ou moins de 1,7 % de Mn, en plus de la composition susmentionnée.

**(JA):** 常温での成形が可能なマグネシウム合金板であって、優れた強度-延性バランスを有するマグネシウム合金板を提供することを課題とする。質量%で、Znを2.4～5.0%、Caを0.3～2.0%、Alを0.0%以上1.5%未満含有し、かつZn/Caの比が2.0～14.0を満足する範囲であり、残部がマグネシウム及び不可避免的不純物からなるマグネシウム合金板、または、前記組成にさらにSnを0.0%以上0.5%未満、及び/あるいはMnを0.0%以上1.7%以下含有するマグネシウム合金板により上記課題は解決される。

#### **International search report:**

Received at International Bureau: 29 June 2020 (29.06.2020) [JP]

#### **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, KR, 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, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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