



- (51) **International Patent Classification:**
A61K 9/24 (2006.01) *A61K 31/00* (2006.01)
A61K 9/20 (2006.01)
- (21) **International Application Number:**
PCT/EP2017/081049
- (22) **International Filing Date:**
30 November 2017 (30.11.2017)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
16203308.8 09 December 2016 (09.12.2016) EP
- (71) **Applicant:** BAYER ANIMAL HEALTH GMBH [DE/DE]; Kaiser-Wilhelm-Allee 10, 51373 Leverkusen (DE).
- (72) **Inventors:** KANIKANTI, Venkata-Rangarao; Quettinger Str. 24a, 51381 Leverkusen (DE). BILLIAN, Patrick; Nelly-Sachs-Str. 15, 51371 Leverkusen (DE).
- (74) **Agent:** BIP PATENTS; Alfred-Nobel-Str. 10, 40789 Monheim am Rhein NRW (DE).
- (81) **Designated States** (*unless otherwise indicated, for every kind of national protection available*): 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, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
- (81) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (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,

(54) **Title:** PHARMACEUTICAL PREPARATION AND METHOD FOR ITS MANUFACTURE



FIG. 1

(57) **Abstract:** A solid pharmaceutical preparation The present invention refers to a pharmaceutical preparation (10) comprising a first pharmaceutical composition having a matrix material and pharmaceutically active ingredients distributed within the matrix material, wherein the first pharmaceutical composition comprises Praziquantel, Pyrantel and Febantel as pharmaceutical active ingredients, wherein the preparation (10) comprises a second pharmaceutical composition having a matrix material and at least one of avermectins and milbemycins such as Moxidectin as pharmaceutically active ingredient distributed within the matrix material, wherein the preparation (10) is provided in a multi-layer structure such, that the first composition is provided in a first layer (12) and the second composition is provided in a second layer (14), wherein the first layer (12) and the second layer (14) are separated by a barrier layer (16) being provided between the first layer (12) and the second layer (14).

TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii))*

Published:

- *with international search report (Art. 21(3))*