



(51) International Patent Classification:

A01N 43/40 (2006.01)

(21) International Application Number:

PCT/US2013/051305

(22) International Filing Date:

19 July 2013 (19.07.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/675,100 24 July 2012 (24.07.2012) US
 13/840,303 15 March 2013 (15.03.2013) US

(71) Applicant: DOW AGROSCIENCES LLC [US/US];
9330 Zionsville Road, Indianapolis, IN 46268 (US).(72) Inventors: YERKES, Carla, N.; 4571 South State Road
47, Crawfordsville, IN 47933 (US). MANN, Richard, K.;
1828 South 550 East, Franklin, IN 46131 (US).
SATCHIVI, Norbert, M.; 3100 Cherub Court, Carmel, IN
46074 (US).(74) Agent: BICKLEY, Patrick, M.; Faegre Baker Daniels
LLP, 300 North Meridian Street, Suite 2700, Indianapolis,
IN 46204 (US).(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

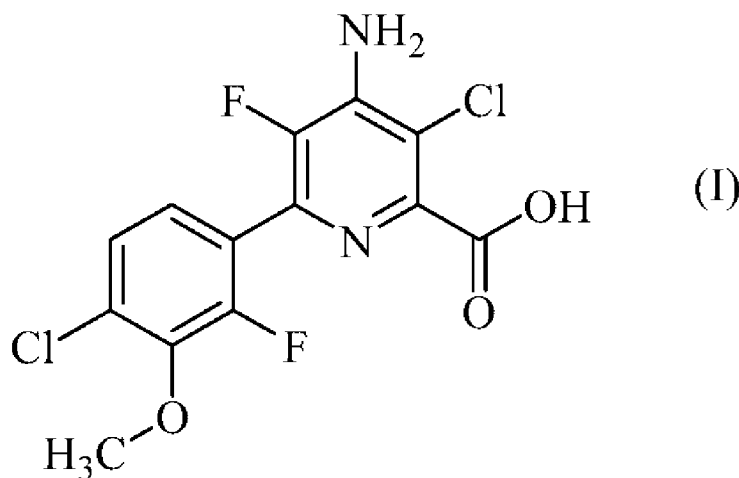
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY,
 BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM,
 DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
 HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KN, KP, KR,
 KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME,
 MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ,
 OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, 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.

(84) 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, 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,
 TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
 KM, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the
 claims and to be republished in the event of receipt of
 amendments (Rule 48.2(h))

(54) Title: HERBICIDAL COMPOSITIONS COMPRISING 4-AMINO-3-CHLORO-5-FLUORO-6-(4-CHLORO-2-FLUORO-3-METHOXYPHENYL)PYRIDINE-2-CARBOXYLIC ACID OR A DERIVATIVE THEREOF AND MICROTUBULE INHIBIT-
 ING HERBICIDES



(57) Abstract: Provided herein are synergistic herbicidal compositions containing (a) a compound of formula (I): 4-amino-3-chloro-5-fluoro-6-(4-chloro-2-fluoro-3-methoxyphenyl)pyridine-2-carboxylic acid or a derivative thereof, or an agriculturally acceptable salt or ester thereof and (b) microtubule inhibiting herbicide, e.g., dimethenamid, dithiopyr, oryzalin, pendimethalin, propyzamide, and thiazopyr, or derivative thereof. The methods and compositions provided herein provide control of undesirable vegetation, e.g., in direct-seeded, water-seeded and transplanted rice, cereals, wheat, barley, oats, rye, sorghum, corn or maize, sugarcane, sunflower, oilseed rape, canola, sugar beet, soybean, cotton, pineapple, pastures, grasslands, rangelands, fallowland, turf, tree and vine orchards, aquatics, plantation crops, vegetables, industrial vegetation management (IVM) and rights-of-way (ROW).

