



(51) International Patent Classification:

A01N 3/00 (2006.01) A23B 7/14 (2006.01)
A01N 25/10 (2006.01)

(21) International Application Number:

PCT/US2014/046312

(22) International Filing Date:

11 July 2014 (11.07.2014)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/845,025 11 July 2013 (11.07.2013) US

(71) Applicant: AGROFRESH INC. [US/US]; 400 Arcola Road, Collegeville, PA 19426 (US).

(72) Inventors: WILLIAMSON, Alexander; 615 Debbie Court, Rosharon, TX 77583 (US). MACLEAN, Daniel; 2574 Allen Circle, Woodland, CA 95776 (US).

(74) Agents: COY, Gregory B. et al.; Krieg DeVault LLP, One Indiana Square, Suite 2800, 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, IR, 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, 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.

(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))

(54) Title: HUMIDITY ACTIVATED FORMULATION FOR VOLATILE COMPOUNDS

(57) Abstract: This invention is related to controlled release formulations of volatile antimicrobial compounds against pathogens affecting meats, plants, or plant parts or dairy products. Provided are delivery systems in the form of coatings or films, where controlled release of their volatile components in vapor form is triggered by high relative humidity. The volatile component may include, for example volatile antimicrobial liquids including low molecular weight alcohols and/or aldehydes, 1-methylcyclopropene, and/or other volatile fungicides.



WO 2015/006671 A1