



(51) International Patent Classification:

C07D 207/277 (2006.01) **C07D 413/12** (2006.01)
C07D 401/04 (2006.01) **C07D 417/12** (2006.01)
C07D 401/12 (2006.01) **A01N 43/36** (2006.01)
C07D 403/04 (2006.01) **A01N 43/48** (2006.01)
C07D 407/04 (2006.01) **A01N 43/40** (2006.01)
C07D 403/12 (2006.01) **A01N 43/50** (2006.01)
C07D 407/12 (2006.01) **A01N 43/76** (2006.01)
C07D 409/04 (2006.01)

(21) International Application Number:

PCT/US2014/068073

(22) International Filing Date:

2 December 2014 (02.12.2014)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/911,324 3 December 2013 (03.12.2013) US

(71) Applicant: **E. I. DU PONT DE NEMOURS AND COMPANY** [US/US]; 1007 Market Street, Wilmington, Delaware 19898 (US).

(72) Inventors: **SATTERFIELD, Andrew Duncan**; 1524 Robert Burns Court, Bear, Delaware 19701 (US). **SELBY, Thomas Paul**; 820 Bengel Road, Hockessin, Delaware

19707 (US). **TRAVIS, David Andrew**; 3018 Turkey Point Road, North East, Maryland 21901 (US). **PATEL, Kanu Maganbhai**; 149 Fairhill Drive, Wilmington, Delaware 19808 (US). **TAGGI, Andrew Edmund**; 21 Tremont Court, Newark, Delaware 19711 (US).

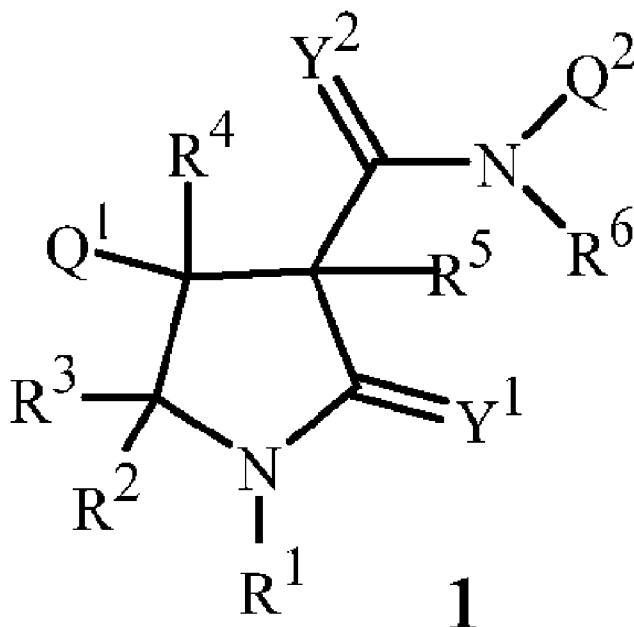
(74) Agent: **COATS, Reed A.**; E. I. du Pont de Nemours and Company, Legal Patent Records Center, Chestnut Run Plaza 721/2640, 974 Centre Road, PO Box 2915 Wilmington, Delaware 19805 (US).

(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, 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, 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,

[Continued on next page]

(54) Title: PYRROLIDINONES AS HERBICIDES



(57) Abstract: Disclosed are compounds of Formula 1, including all stereoisomers, *N*-oxides, and salts thereof, wherein R¹, R², R³, R⁴, R⁵, R⁶, Q¹, Q², Y¹, and Y² are as defined in the disclosure. Also disclosed are compositions containing the compounds of Formula 1 and methods for controlling undesired vegetation comprising contacting the undesired vegetation or its environment with an effective amount of a compound or a composition of the invention.



LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, **Published:**

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

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

— *with amended claims and statement (Art. 19(1))*