

(51) International Patent Classification:  
C07C 51/38 (2006.01)(21) International Application Number:  
PCT/GB2010/052176(22) International Filing Date:  
21 December 2010 (21.12.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0922255.5 21 December 2009 (21.12.2009) GB(71) Applicants (for all designated States except US): **LU-CITE INTERNATIONAL UK LIMITED** [GB/GB]; Queens Gate, 15-17 Queens Terrace, Southampton Hampshire SO14 3BP (GB). **HUDDLE, Thomas, Andrew** [GB/GB]; Dicks Hill Farmhouse, Hound House Road, Shere, Guildford GU5 9JJ (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **JOHNSON, David, William** [GB/GB]; Wilton Centre, Wilton, Redcar TS10 4RF (GB). **EASTHAM, Graham, Ronald** [GB/GB]; Wilton Centre, Wilton, Redcar TS10 4RF (GB). **POLIAKOFF, Martyn** [GB/GB]; 13 Elm Avenue, Beeston, Nottingham NG9 1BU (GB).(74) Agent: **APPLEYARD LEES**; 15 Clare Road, Halifax, West Yorkshire HX1 2HY (GB).

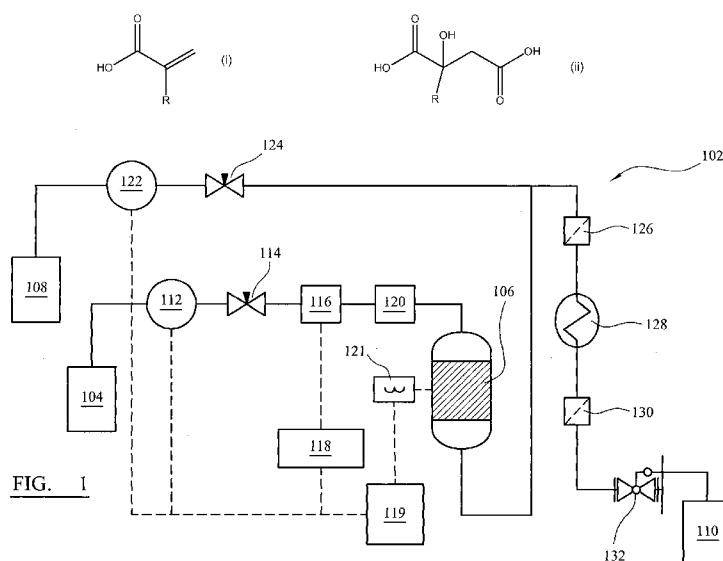
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, 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, PE, PG, PH, PL, PT, RO, RS, RU, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report (Rule 48.2(g))

(54) Title: METHOD OF PRODUCING ACRYLIC AND METHACRYLIC ACID

(57) Abstract: A method of producing a compound of formula (i): wherein R = H or CH<sub>3</sub> the method comprising exposing a source of a compound of formula (ii) to reaction conditions of temperature and pressure: formula (ii) wherein R is defined as above wherein, when R = CH<sub>3</sub>, the source of a compound of formula (ii) is exposed to reaction conditions of temperature and pressure while being in a liquid phase.