

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
1 November 2001 (01.11.2001)

PCT

(10) International Publication Number
WO 01/81351 A1

(51) International Patent Classification⁷: **C07D 493/04**,
C09B 69/00, C09K 11/06, 11/07, G01N 33/533, 33/68

(74) Agent: **F B RICE & CO**; 605 Darling Street, Balmain,
NSW 2041 (AU).

(21) International Application Number: PCT/AU01/00472

(22) International Filing Date: 26 April 2001 (26.04.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PQ 7117 26 April 2000 (26.04.2000) AU

(71) Applicant (for all designated States except US): **MAC-
QUARIE RESEARCH LTD** [AU/AU]; 2nd Floor, Becton
Dickinson Building, Research Park Drive, Macquarie Uni-
versity, NSW 2019 (AU).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,
HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,
LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX,
MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL,
TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

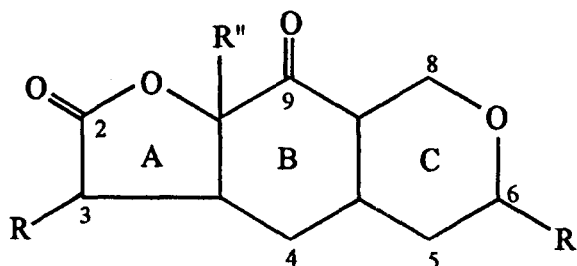
— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BELL, Philip, John**,
Livingston [AU/AU]; 18 Apps Avenue, Turrumurra, NSW
2074 (AU). **KARUSO, Peter** [AU/AU]; 1/108 Cammeray
Road, Cammeray, NSW 2062 (AU).

(54) Title: FLUORESCENT COMPOUNDS



(I)

(57) Abstract: Fluorescent dye compounds of formula (I) are disclosed. These compounds are useful as they interact with organic compounds in a manner such that excitation with certain wavelengths of light results in fluorescent emission. Detection and/or monitoring of the fluorescence provides a means for the detection or quantification of organic compounds when bound to these fluorescent dye compounds. Formula (I), wherein: each of R, R' and R''

is a hydrogen atom, halogen atom or a straight or branched chain C₁₋₂₀ alkyl, alkenyl or alkynyl group optionally substituted with one or more halogen, hydroxy and/or oxy group; rings A, B and C optionally include one or more double bonds; rings B and C are optionally substituted with one or more halogen atoms.

WO 01/81351 A1