



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C07D 209/02, 209/44, 209/82, 231/00, 233/02, 401/00, 405/00, 413/00, G02B 5/23, 27/00	A1	(11) International Publication Number: WO 98/55457 (43) International Publication Date: 10 December 1998 (10.12.98)
(21) International Application Number: PCT/US97/09687 (22) International Filing Date: 4 June 1997 (04.06.97) (71) Applicant: PPG INDUSTRIES, INC. [US/US]; One PPG Place, Pittsburgh, PA 15272 (US). (72) Inventors: KUMAR, Anil; 251 Darlan Hill Drive, Pittsburgh, PA 15239 (US). KNOWLES, David, B.; 1006 Blueberry Drive, Apollo, PA 15613 (US). VAN GEMERT, Barry; 2004 High Pointe Drive, Murrysville, PA 15668 (US). (74) Agents: STEIN, Irwin, M.; PPG Industries, Inc., One PPG Place, Pittsburgh, PA 15272 (US) et al.		(81) Designated States: AU, BR, CA, CN, HU, IL, JP, KR, MX, NZ, SG, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>
(54) Title: SUBSTITUTED NAPHTHOPYRANS (57) Abstract Described are novel reversible photochromic 2H-naphtho[1,2-b]pyran compounds, examples of which are compounds having certain substituents at the number 5 carbon atom of the naphtho-portion of the naphthopyran and at the 2-position of the pyran ring. Certain substituents may also be present at the number 6, 7, 8, 9 or 10 carbon atoms of the naphtho portion of the naphthopyran. Also described are organic host materials that contain or that are coated with such compounds. Articles such as ophthalmic lenses or other plastic transparencies that incorporate the novel naphthopyran compounds or combinations thereof with complementary photochromic compounds, e.g., spiro(indoline) type compounds, are also described.		