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(21) International Application Number: PCT/US98/03425 (22) International Filing Date: 23 February 1998 (23.02.98) (30) Priority Data: ① 08/813,099 ✓ 7 March 1997 (07.03.97) ✓ US ✓ (71) Applicant: HOECHST CELANESE CORPORATION [-/US]; Route 202-206 North, Somerville, NJ 08876 (US). (72) Inventors: ① ASLAM, Mohammad, 7221 Diamond Ridge, Corpus Christi, TX 78413, (US); ② SHEEHAN, Michael, TX 3117 Briarhurst, Corpus Christi, TX 78414 (US); ③ KVAKOVSKY, George, 536 Naples, Corpus Christi, TX 78404 (US); ④ DAVENPORT, Kenneth, G. 454 Cape Lookout, Corpus Christi, TX 78412 (US); ⑤ GORDON, Douglas, G., 6074 Lost Creek Drive, Corpus Christi, TX 78413 (US); (74) Agents: GENOVA, John, M. et al.; Hoechst Celanese Corpo- ration, 86 Morris Avenue, Summit, NJ 07901 (US).		(81) Designated States: CN, JP, KR, SG, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published With international search report. / 1 PD. 1 applⁿ. 5 Invs. IPC: C07D 311/74 IPER: 5/16/98
(54) Title: PHOTOACTIVE COUMARIN SULFONATE COMPOUNDS ✓ (57) Abstract A new class of 3-diazo-3,4-dihydrocoumarin compounds which are useful as photoactive compounds in a wide variety of applications including photoresists and other opto-electronic applications are disclosed and claimed. Preferred embodiments include 6-sulfonyl-3-diazo-4-oxo-3,4-dihydrocoumarin esters. These compounds exhibit very high photosensitivity in the deep ultraviolet (DUV) region (ca. 250 nm), and therefore, are useful as photoactive compounds in DUV photoresist formulations.		