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(21) International Application Number: PCT/CA95/00647 (22) International Filing Date: 10 November 1995 (10.14.95) (30) Priority Data: 08/339,127 14 November 1994 (14.11.94) US (71) Applicant: SIMON FRASER UNIVERSITY [CA/CA]; Industry Liaison Office, Strand Hall, Burnaby, British Columbia V5A 1S6 (CA). (72) Inventors: HILL, Ross, Henry; 294 Hart Street, Coquitlam, British Columbia V3K 4A9 (CA). PALMER, Bentley, Jay; 700 Mitchell Bridge Road #124, Athens, GA 30606 (US). AVEY, Alfred, Arthur, Jr.; Apartment 17, 7088 Inlet Drive, Burnaby, British Columbia V5A 1C1 (CA). BLAIR, Sharon, Louise; 1848 East 11th Avenue, Vancouver, British Columbia V5N 1Z1 (CA). CHU, Chu-Hui, Winnie; 7238 Hastings Street, Burnaby, British Columbia V5A 1G8 (CA). GAO, Meihua; Simon Fraser University, 616 Louis Riel House, Burnaby, British Columbia V5A 1S6 (CA). LAW, Wai, Lung; 5 Burrard Crescent, Port Moody, British Columbia V3H 4V8 (CA).	(74) Agent: MANNING, Gavin, N.; Oyen Wiggs Green & Mutala, 480-601 West Cordova Street, Vancouver, British Columbia V6B 1G1 (CA). (81) Designated States: CA, CN, JP, KR, SG, European patent (AT, BE, CH, DE, DK, ES, FR, GB, <u>GR</u> , IE, IT, LU, MC, NL, PT, SE). Published With international search report. SG 9701974-9	
(54) Title: METHOD FOR DIRECTLY DEPOSITING METAL CONTAINING PATTERNED FILMS (57) Abstract A photoresist-free method for making patterned films of metal oxides, metals, or other metal containing compounds is described. The method involves applying an amorphous film of a metal complex to a substrate. The film may be conveniently applied by spin coating using standard industry techniques. The metal complex used is photoreactive and undergoes a low temperature chemical reaction in the presence of light of a suitable wavelength. The end product of the reactions depends upon the atmosphere in which the reactions take place. Metal oxide films may be made in air. Patterned films may be made by exposing only selected portions of the film to light. Patterns of two or more materials may be laid down from the same film by exposing different parts of the film to light in different atmospheres. The resulting patterned film is generally planar. Separate planarization steps are not generally required.		