

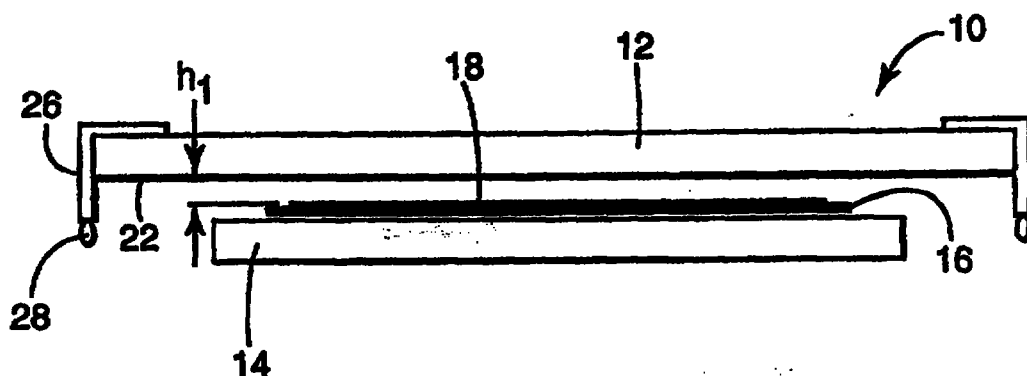
PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : F26B 13/10, 3/20, 25/00	A1	(11) International Publication Number: WO 97/1328 (43) International Publication Date: 27 March 1997 (27.03.97)
(21) International Application Number: ☒ PCT/US96/14435 (22) International Filing Date: ☒ 9 September 1996 (09.09.96) (30) Priority Data: 08/536,593 ☒ 18 September 1995 (18.09.95) US 08/699,522 ☒ 4 September 1996 (04.09.96) US (71) Applicant: MINNESOTA MINING AND MANUFACTURING COMPANY [US/US]; 3M Center, P.O. Box 33427, Saint Paul, MN 55133-3427 (US). ☒ (72) Inventors: HUELSMAN, Gary, L.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US). KOLB, William, B.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US). ☒ (74) Agents: LEVINE, Charles, D. et al.; Minnesota Mining and Manufacturing Company, Office of Intellectual Property Counsel, P.O. Box 33427, Saint Paul, MN 55133-3427 (US).	(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, <u>SG</u>, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>	

(54) Title: COATED SUBSTRATE DRYING SYSTEM ☒



(57) Abstract

A method and apparatus (10) of drying a substrate (16) uses a condensing surface (22) located adjacent the substrate on the side of the substrate being dried. The liquid from the substrate is evaporated and then condensed on the condensing surface (22) without applied convection. The condensed liquid is removed from the condensing surface while the condensed liquid remains liquid. Evaporation can be performed by heating the substrate (16) without applied convection.