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(21) International Application Number: PCT/US96/01250 (22) International Filing Date: 26 January 1996 (26.01.96) (71) Applicant (for all designated States except US): MINNESOTA MINING AND MANUFACTURING COMPANY [US/US]; 3M Center, P.O. Box 33427, Saint Paul, MN 55133-3427 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): KRINKE, Harlan, L. [US/US]; 17835 Norell Avenue, Marine-on-St. Croix, MN 55047 (US). REEVES, Mark, E. [US/US]; 238 Dunbar Way, Mahtomedi, MN 55115 (US). (74) Agents: TRUSSELL, James, J. et al.; 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, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AZ, BY, KG, KZ, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, 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 With international search report.
(54) Title: STACKED LAMINATE MOLD AND METHOD OF MAKING (57) Abstract A method of forming a stacked laminate mold. The method comprises the steps of: a) orienting a plurality of plates (12) to have their respective major planes (16) at a first angle relative to a fixed reference plane and parallel to one another, each of the plates (12) including opposed parallel first and second major surfaces defining therebetween the major plane of each of the plurality of plates, each of the plates further including a mold surface (18) connecting the first and second major surfaces; b) forming a groove in the plurality of plates, the groove including a groove surface (42) defined by cylindric surface that is the construct of translating a two-dimensional groove profile through the plate along a line that is oblique to at least one of the plate major surfaces (16) and the plate mold surface (18), and wherein the groove surface intersects (48, 52, 54) each respective plate first major surface (14) and each respective plate mold surface (18); and thereafter c) reorienting the plates to have their respective major planes at a second angle relative to the reference for molding. Also disclosed is a stacked laminate mold. The mold comprises a plurality of plates (12), each of the plates including: opposed parallel first and second major surfaces (14, 16) defining therebetween a major plane of each of the plurality of plates; a mold surface (18) connecting the first and second major surfaces; and a plurality of cavities in each of the plurality of plates. Each of the cavities is open at least to the mold surface and includes a cavity surface defined by cylindric surface that is the construct of translating a two-dimensional cavity profile through the plate along a line that is oblique to at least one of the plate major surface (16) and the plate minor surface (18), and the cavity surface intersects each respective plate first major surface (14) and each respective plate mold surface (18). The first major surface (14) of a first one of the plurality of plates (12) is adjacent the second major surface (16) of a second one of the plurality of plates (12).		

