

9705516-4

PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : E04B	A2	(11) International Publication Number: WO 97/04184 (43) International Publication Date: 6 February 1997 (06.02.97)
(21) International Application Number: PCT/KR96/00109 (22) International Filing Date: 13 July 1996 (13.07.96) (30) Priority Data: 1995/20835 14 July 1995 (14.07.95) KR 1996/27258 5 July 1996 (05.07.96) KR (71) Applicant (for all designated States except US): KOREAN INDUSTRIAL DEVELOPMENT CORP. [KR/KR]; 419 Yonggye-ri, Keumwang-eup, Eumseong-gun, Chungcheongbuk-do 369-900 (KR). (72) Inventor; and (75) Inventor/Applicant (for US only): KIM, Jeong, Man [KR/KR]; 189-10 Shinwol-3-dong, Yangcheon-gu, Seoul 158-093 (KR). (74) Agents: KIM, Byung, Jin et al.; 201 Hwajin Building, 828 Yoksam-dong, Kangnam-gu, Seoul 135-080 (KR).		(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, 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 (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 Without international search report and to be republished upon receipt of that report.
(54) Title: A METHOD FOR MANUFACTURING INTERIOR PLATE BOARDS FOR CONSTRUCTION (57) Abstract The present invention relates to a method for manufacturing interior plate boards for construction comprising the steps of cutting 30-55 % by weight of waste pulp, 20-35 % by weight of waste polyester fibers and 20-35 % by weight of waste polypropylene fibers by predetermined length to make a material mixture, homogeneously mixing the material mixture with 2-9 % by weight of filler and water, dehydrating the homogeneous mixture while uniformly distributing and removing the homogeneous mixture on a network-structured belt and passing through a pair of rollers to form a plate board precursor, spraying a thermosetting resinous solution on the plate board precursor, drying the plate board precursor at temperatures of 60-90 °C to form a plate board until the moisture content of the plate board becomes 5-20 %, cutting the plate board in specified shapes, spraying water onto the surface of the plate board, and compressively molding the plate board into interior plate boards having respective shapes at temperatures of 180-200 °C and under the pressures of 120~150 Kg./cm². According to the invention, the interior plate boards have excellent form-maintaining property and workability as well as superior tensile strength and breaking strength, and the manufacturing cost and the environmental pollution can be reduced by using waste resources.		