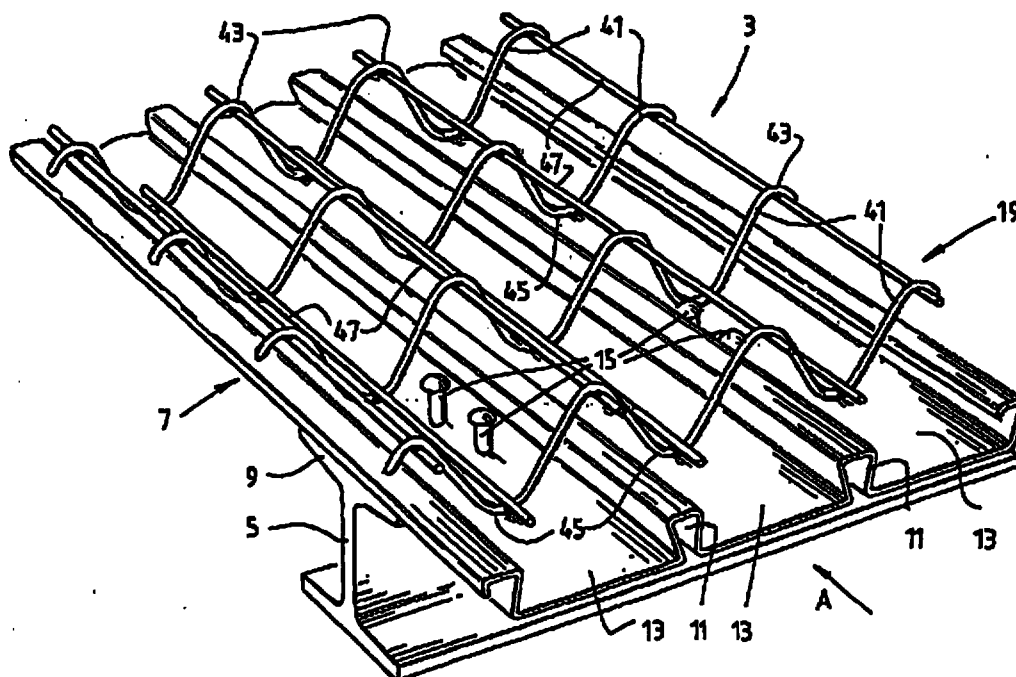


PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : E04C 3/294, E04B 5/40	A1	(11) International Publication Number: WO 96/06994 (43) International Publication Date: 7 March 1996 (07.03.96)
(21) International Application Number: PCT/AU95/00567 (22) International Filing Date: 1 September 1995 (01.09.95) (30) Priority Data: PM 7806 1 September 1994 (01.09.94) AU (71) Applicant (for all designated States except US): BHP STEEL (RP) PTY. LTD. [AU/AU]; Level 43, BHP Tower, 600 Bourke Street, Melbourne, VIC 3000 (AU). (72) Inventors; and (75) Inventors/Applicants (for US only): PATRICK, Mark [AU/AU]; 6 Doowli Court, Greensborough, VIC 3088 (AU). DAYAWANSA, Peduru, Hewa [LK/AU]; 46 Chancellor Drive, Mulgrave, VIC 3170 (AU). (74) Agent: GRIFFITH HACK & CO. ; 509 St Kilda Road, Melbourne, VIC 3004 (AU).	(81) Designated States: AM, AT, AU, 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, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, (SG) SI, SK, TJ, TM, TT, UA, UG, US, UZ, VN. 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), ARIPO patent (KE, MW, SD, SZ, UG). Published With international search report. 86 9700767-8 RTM's copy	

(54) Title: **A COMPOSITE BEAM**

(57) Abstract

A composite beam (3) for the building industry is disclosed. The composite beam (3) comprises: a horizontally extending beam (5); a composite slab formed from profiled sheeting (7) and concrete cast on the sheeting (7); a plurality of shear connectors (15) extending through the sheeting (7) and welded to the top flange (9) of the beam (5); and a reinforcing component (19) in the concrete slab for preventing premature longitudinal shear failure of the composite beam (3).