



Free copy

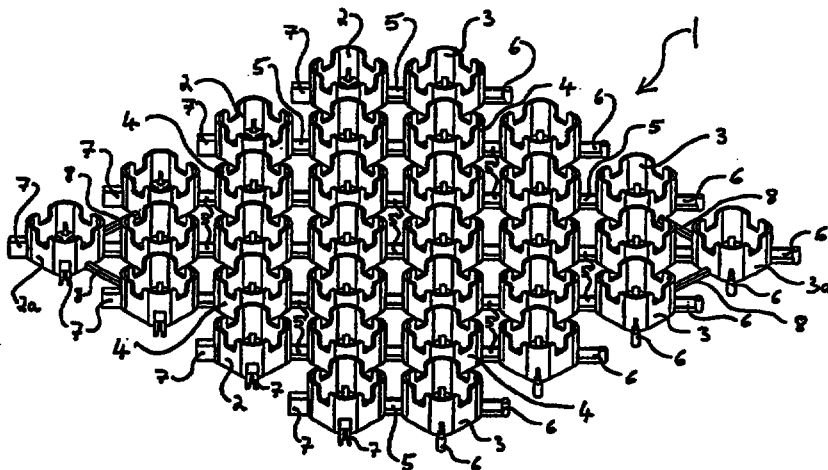
PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : E02B 3/14	A1	(11) International Publication Number: WO 99/41460 (43) International Publication Date: 19 August 1999 (19.08.99)
(21) International Application Number: PCT/SG99/00008 (22) International Filing Date: 11 February 1999 (11.02.99) (30) Priority Data: PCT/SG98/00013 17 February 1998 (17.02.98) SG (71)(72) Applicant and Inventor: LEE, Sian, Ghee, Alan [SG/SG]; 21 Almond Crescent, Singapore 677779 (SG). (74) Agent: MCCALLUM, Graeme, David; Lloyd Wise, Tanjong Pagar, P.O. Box 636, Singapore 910816 (SG).	(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, 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, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>	

(54) Title: A GRID STRUCTURE



(57) Abstract

A grid structure (1) includes a number of cells (2, 3, 4), each non-peripheral cell (4) being spaced apart from and connected to a number of nearest adjacent cells (2, 3, 4) the centers of the cells (2, 3, 4) define a first array of points. The cells (2, 3, 4) define a number of openings and the size of the openings are greater than the size of the cells (2, 3, 4). The centers of the openings define a second array of points. The spacing of the points in the second array is substantially identical to the spacing of the points in the first array. In addition, the peripheral cells (2, 3) in the array comprise coupling means (6, 7) to permit the grid structure (1) to be coupled to a like grid structure (1a). The coupling means (6, 7) comprise a first coupling member (6) on a peripheral cell (3) of the grid structure (1) and a second coupling member (7) on a peripheral cell of the like grid structure. The first and second coupling members (6, 7) are adapted to engage with each other, at least partially within one of the peripheral cells (2, 3), to couple the grid structure (1) to the like grid structure (1a).