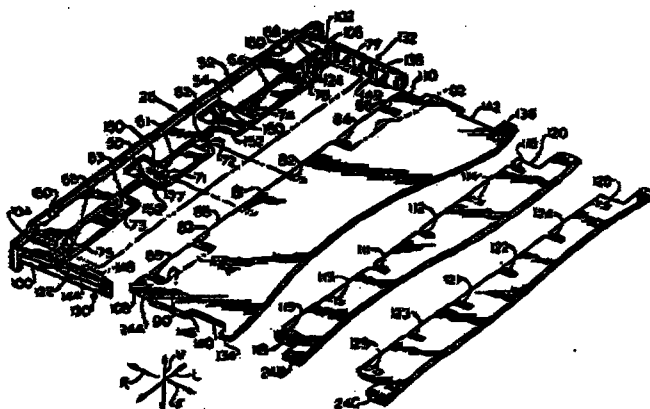




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(21) International Application Number: PCT/US97/11818 (22) International Filing Date: 8 July 1997 (08.07.97) (30) Priority Data: 08/719,856 25 September 1996 (25.09.96) US (71) Applicant: ITT MANUFACTURING ENTERPRISES, INC. [US/US]; Suite 1217, 1105 North Market Street, Wilmington, DE 19801 (US). (72) Inventor: BETHURUM, Gary, Cain; 10 Viewpoint Road, Laguna Niguel, CA 92677 (US). (74) Agent: ROSEN, Leon; Suite 840, 10960 Wilshire Boulevard, Los Angeles, CA 90024 (US).	(81) Designated States: AU, CN, JP, KR, NO, SG , European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>	

(54) Title: IC CARD REAR BOARD SUPPORT**(57) Abstract**

A frameless IC card is provided, with a rear board support (26) to hold the rear of a circuit board, wherein a single design of rear board support can hold circuit board rear ends (24A, 24B, 24C) at a selected one of a plurality of different heights. The rear board support has top and bottom horizontal flanges (32, 34) and a plurality of vertical ribs (61-66) merging with the flanges, with the ribs being laterally spaced apart. A first set of vertical ribs (61, 62) has horizontal grooves (71, 72) of a first height extending into its front edge, with the grooves being about as thick as the circuit board, to closely receive the rear (24A) of a circuit board and thereby vertically position it. The rear board support includes a second set of ribs (63, 64) with horizontal grooves (73, 74) lying at a different height, to thereby hold a circuit board rear end (24B) at a different height, thereby enabling the same rear board support to hold circuit boards at selected heights. The rear of the circuit board has slots (83-86, 111-112 and 115-116, 121-124) that receive ribs that do not closely position the height of the circuit board. The rear board support has forwardly-projecting latch leg (130, 132) that fit into circuit board cutouts (140, 142), so shoulders (144, 146) on the legs and on the cutouts engage to prevent the circuit board from pulling forwardly (F) out of the rear board support.