



PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

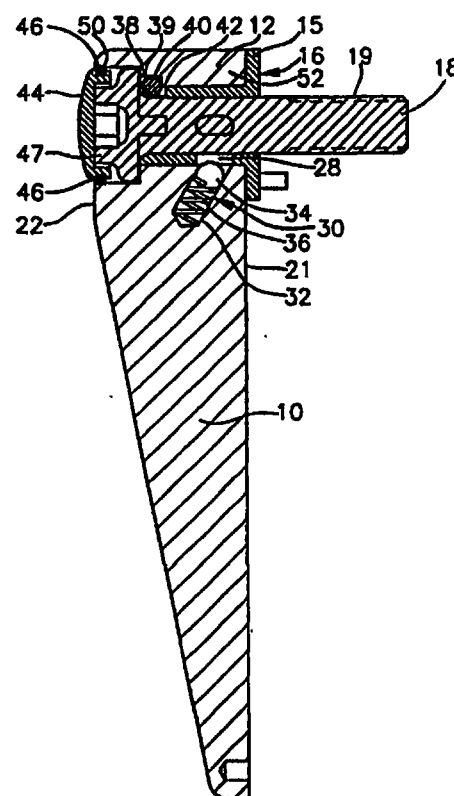
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : B64C 1/00, 1/10, 1/20, E05C 3/02, 3/04, G05G 1/04, 1/10, 5/06		A1	(11) International Publication Number: WO 99/52769
			(43) International Publication Date: 21 October 1999 (21.10.99)
(21) International Application Number: PCT/US99/07938		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, 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, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, 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).	
(22) International Filing Date: 12 April 1999 (12.04.99)		Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>	
(30) Priority Data: 60/081,749 14 April 1998 (14.04.98) US			
(71) Applicant (for all designated States except US): SKYLOCK INDUSTRIES, INC. [US/US]; 904 S. Alta Vista Avenue, Monrovia, CA 91016 (US).			
(72) Inventors; and (75) Inventors/Applicants (for US only): CSIK, Terrence, S. [US/US]; 3850 Shadow Grove Road, Pasadena, CA 91107 (US). SHORT, Dale, L. [US/US]; 3785 Denair Street, Pasadena, CA 91107 (US).			
(74) Agent: MARANTIDIS, Constantine; Christie, Parker & Hale LLP, P.O. Box 7068, Pasadena, CA 91109-7068 (US).			

(54) Title: GALLERY RETAINER

(57) Abstract

A gallery retainer is provided having an axial bore (14) through which is fitted a bushing (16). The bushing (16) has radial slots (28) which interface with a detent mechanism (30) formed in an angular bore (32) drilled through the axial bore lower wall (33) from a rear face (21) of the retainer. A rotation limiting mechanism (38, 40 and 42) is formed near the front face (22) of the retainer in the axial bore (14). The retainer provides for maximization of material thickness at the retainer's critical load bearing areas while reducing the overall material volume.



162162



G00002