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(21) International Application Number: PCT/US98/25316 (22) International Filing Date: 11 December 1998 (11.12.98) (30) Priority Data: 9/362851 12 December 1997 (12.12.97) JP (71) Applicant (for all designated States except US): MOLEX INCORPORATED [US/US]; 2222 Wellington Court, Lisle, IL 60532-1682 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): HORINO, Atsuhito [JP/JP]; 5-4-26-50-405, Kamiizumi 6-chome, Ebina, Kanagawa 243-0431 (JP). YOKOYAMA, Seiichi [-JP]; 4-204, Takemura-cho 14-chome, Seya-ku, Yokohama, Kanagawa 246-0005 (JP). (74) Agent: PAULIUS, Thomas, D.; Vedder, Price, Kaufman, Kammholz, 24th floor, 222 North LaSalle, Chicago, IL 60601-1003 (US).		(81) Designated States: KR, SG, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). 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: TOGGLE-STYLE OVERLOAD PROTECTION DEVICE (57) Abstract An anti-overloading device for use in a restraint-camming apparatus in which the apparatus includes a linear guide for guiding an associated operating member in reciprocating movement and a restraint cam for reciprocating the operating member in its movement has a toggle assembly that which is fixed to the operating member. The toggle assembly comprises a "U"-shaped body, two support links that are rotatably connected to the free ends of opposite free ends of the toggle assembly body portion that engages the ends of the links, and a cam follower rotatably supported by the pin. The cam follower is engaged with the restraint cam to thereby put the restraint cam in a controlled restraint position between the cam follower and a counterpart cam follower roll that is fixed to the operating member. The toggle assembly permits the anti-loading structure can be reduced in size, still permitting the setting of an increased permissible load.		