The United States of America

The Commissioner of Patents and Trademarks

Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

If this application was filed on or after June 8, 1995, the term of this patent is twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

Buce Tehran

Commissioner of Patents and Trademarks

Panara Mortan

Atte

United States Patent [19]

Jen et al.

[56]

Patent Number:

5,573,215

Date of Patent:

Nov. 12, 1996

[54] CLIP ASSEMBLY FOR CLAMPING A TEST-PIECE WITH TWO END PORTIONS WHICH FORM AN ANGLE THEREBETWEEN

[76] Inventors: Ming-Hwa R. Jen, Dept. of mechanical engineering, National Sun Yae-Sen University, Kaohsiung, Taiwan; Weihwang Lin, Dept. of military engineering, Chinese Military Academy, Feng-Shan, Taiwan, 831

[21]	Appl. No.: 382,244	
[22]	Filed: Feb. 1, 19	95
[51]	Int. Cl.6	A47G 1/10
[52]	U.S. Cl	248/316.2; 248/230.2;
•		8/231.31; 24/115 M; 24/136 R
[58]		248/228.2, 229.11,
		1, 230.2, 231.31, 316.2, 316.4;
	24/132 WL	, 136 B, 136 L, 136 R, 115 M

References Cited

U.S. PATENT DOCUMENTS

1,504,087	9/1924	Brady	24/136 R
		Tautz	
1.935.645	11/1933	Lundin	24/136 R

3,776,586	12/1973	Ahlgren et al 24/136 R X
4,823,887	4/1989	Umeda 248/231.31 X
5.015.023	5/1991	Hall 24/136 R X

Primary Examiner-Leslie A. Braun Assistant Examiner-Richard M. Smith Attorney, Agent, or Firm-Marshall & Melhorn

ABSTRACT

A clip assembly includes a main block with a tapered internal wall confining a receiving space to receive slidably and engageably a pair of clamps therein. The clamps define a gap therebetween. The clamps further define an elongated engaging groove at its upper portion and extends transversely to the gap which receives engageably two connectors with two connecting rods extending out from the engaging groove to connect a circular disc disposed above the clamps. The disc has a centrally located threaded through-hole. A cover member has a through-hole aligned with the threaded through-hole of the disc and mounted securely on the rigid block to cover the receiving space. A regulating screw has a threaded portion engaged threadedly in the threaded through-hole of the circular disc and a head portion engaged rotatably by the periphery of the throughhole of the cover member so as to prevent the head portion from moving axially when the regulating screw is rotated about its axis.

8 Claims, 6 Drawing Sheets

