Jan. 1, 1952 M. ZABICH 2,581,317

AXIALLY AND ANGULARLY ADJUSTABLE STRAIGHT BEAM CLAMP

Filed Sept. 2, 1950

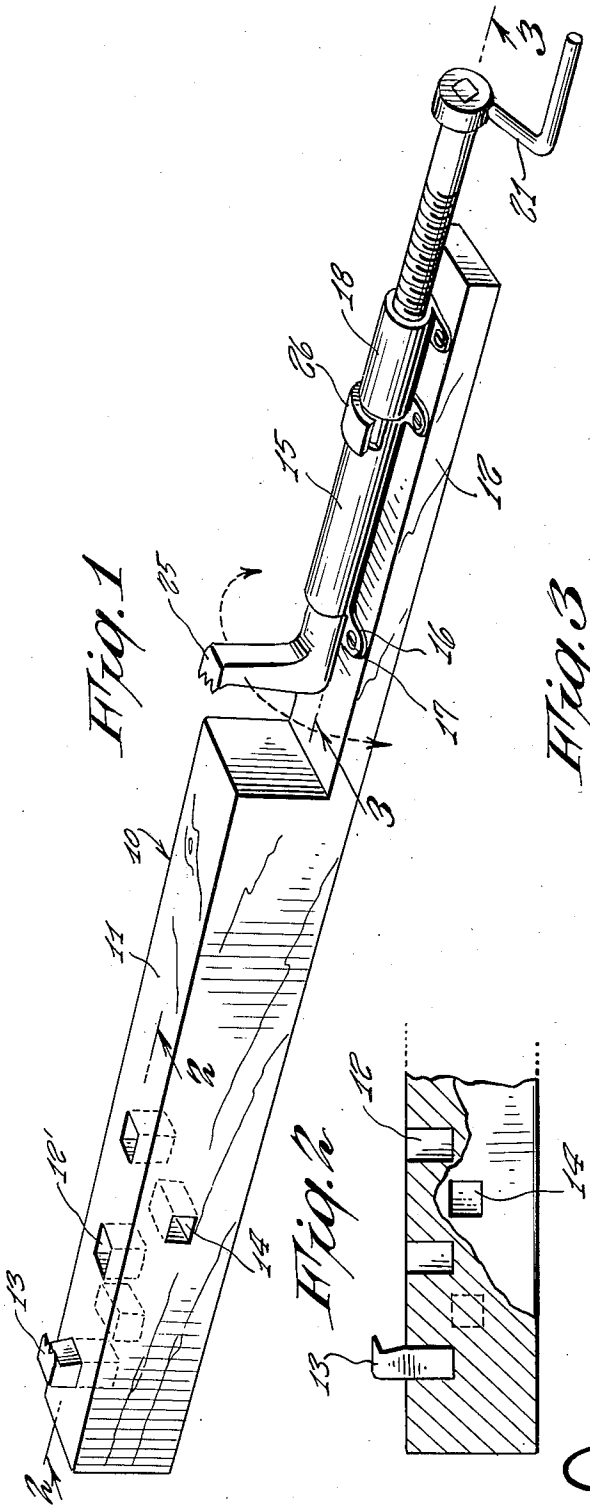


Fig. 1

Fig. 2

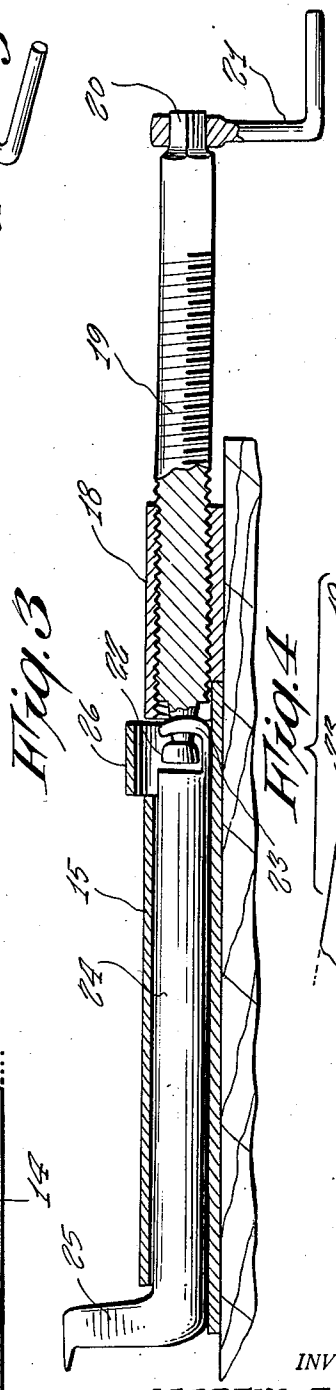


Fig. 3



Fig. 4

INVENTOR.
MARTIN ZABICH
BY
Carl Miller
ATTORNEY

Patented Jan. 1, 1952

2,581,317

UNITED STATES PATENT OFFICE

2,581,317

AXIALLY AND ANGULARLY ADJUSTABLE STRAIGHT BEAM CLAMP

Martin Zabich, Verona, Pa.

Application September 2, 1950, Serial No. 182,946

1 Claim. (Cl. 144—297)

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This invention relates to an alligator clamp for holding work pieces in place when glued or for other purposes.

It is an object of the present invention to provide an alligator clamp which is a self-contained unit and on which the adjustable clamp part can be changed and effected in an easy manner and wherein the tightening clamp part can be angled from an elevated position to a side position whereby the same can be positioned either on vertically extending parts or horizontally extending parts.

Other objects of the present invention are to provide a self-contained alligator clamp which is of simple construction, inexpensive to manufacture, has a minimum number of parts, easy to adjust, compact, easy to transport and efficient in operation.

For other objects and for a better understanding of the invention, reference may be had to the following detailed description taken in connection with the accompanying drawing, in which

Fig. 1 is a perspective view of the clamp embodying the features of the present invention.

Fig. 2 is a fragmentary sectional view taken on line 2—2 of Fig. 1.

Fig. 3 is a longitudinal sectional view taken generally on line 3—3 of Fig. 1.

Fig. 4 is a fragmentary collective view showing the connection of the adjusting screw with the adjustable alligator clamp part.

Referring now to the figures, 10 represents a base having an enlarged elevated portion 11 and a lowered portion 12. The elevated portion has a plurality of holes 12' therein of square formation adapted to receive the fixed clamp part or alligator jaw 13. This clamp part or alligator jaw is of square section adapted to fit the square openings 12'. The openings 12' are longitudinally spaced from one another and on the side of the portion 11 there may be provided similarly arranged square openings, as indicated at 14.

Secured to the top of the lowered portion 12 is a sleeve 15. Lugs 16 are provided on the sleeve and receive screws 17 which will secure the sleeve 15 in place upon the top face of the lowered portion 12. Also fixed to the lowered portion and rearwardly of the guide sleeve 15 is a threaded sleeve 18 for receiving a threaded adjusting screw 19. This adjusting screw has a squared formation 20 on its end to which a crank 21 is fitted to turn the screw. On the forward end of the screw

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19 is a head 22 adapted to receive a bifurcated or yoke formation 23 of a shank 24 of an alligator jaw 25. The forward end of the shank 24 is bent up to provide the jaw 25.

The shank 24 can be turned in the manner indicated by the arrows in Fig. 1 to one side or the other in order that it can be used when the jaw part 13 is disposed in the sides of the raised portion 11.

The clamp is used in the usual manner and the boards are disposed between the jaws 13 and 25.

The sleeve 15 is raised at 26 to permit the turning of the bifurcated portion 23 of the shank 24.

While various changes may be made in the detail construction, it shall be understood that such changes shall be within the spirit and scope of the present invention as defined by the appended claim.

Having thus set forth and disclosed the nature of my invention, what is claimed is:

An alligator clamp comprising a supporting base having a raised portion and a lowered portion, a series of openings in the raised portion adapted to receive a jaw part, a guide sleeve secured to the lowered portion, a clamp part having a round shank axially and rotatably adjustable in the guide sleeve and having a raised jaw portion at its outwardly protruding forward end, an internally threaded sleeve secured to the lowered portion in rear of the guide sleeve, an adjusting screw adjustable in the internally threaded sleeve and a swivel connection between the inner end of the adjustable screw and the inner end of the jaw shank, whereby said raised jaw portion may be turned to engage work placed on either the sides or the top of the raised portion of the base.

MARTIN ZABICH.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
14,390	Clapp	Mar. 11, 1856
572,725	Schweitzer	Dec. 9, 1896
727,986	Makowsky	May 12, 1903
990,186	Berg	Apr. 18, 1911