

**Sept. 4, 1928.**

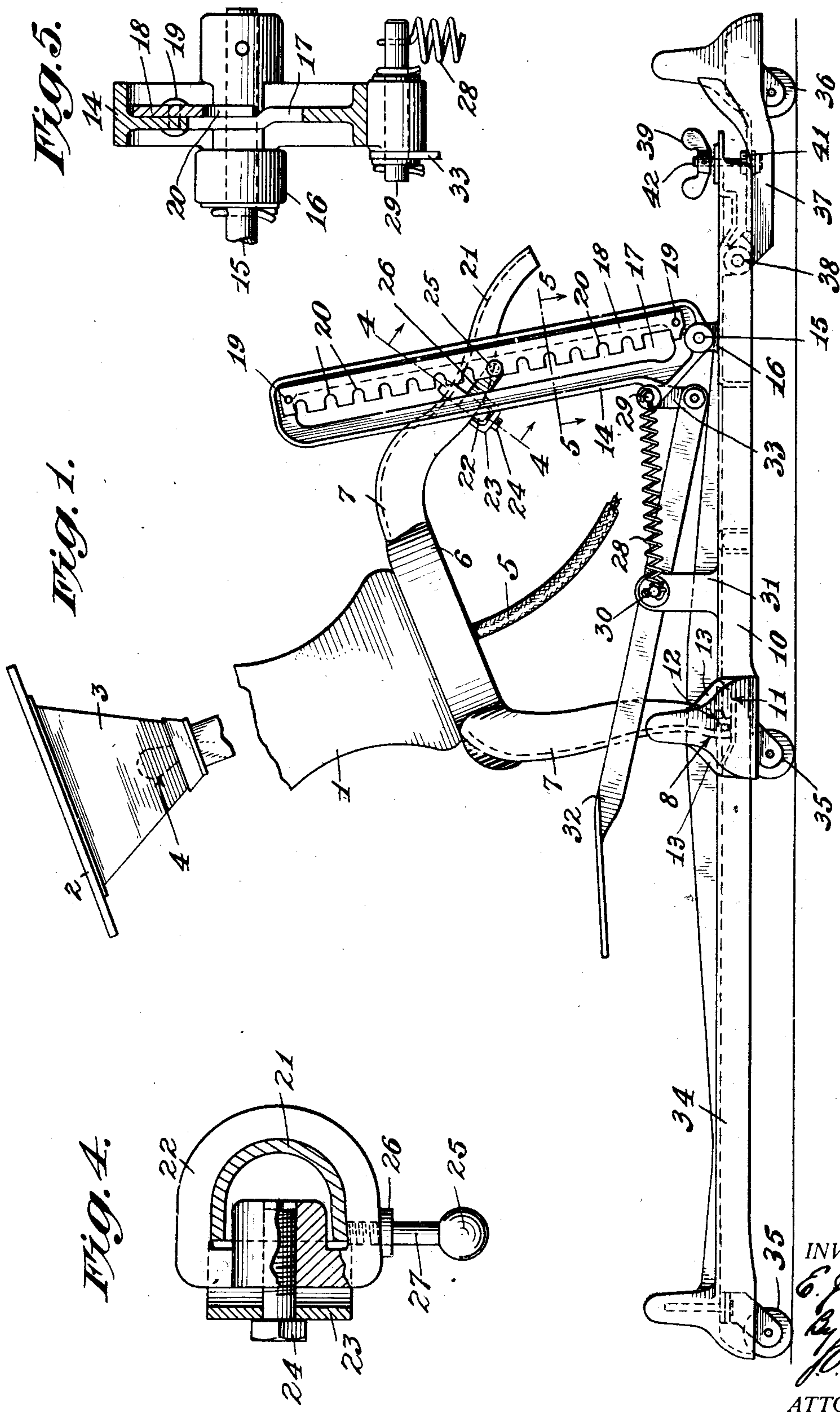
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**E. J. BRASSEUR**

**MOUNT FOR DRAWING TABLES AND THE LIKE**

Filed March 19, 1924

2 Sheets-Sheet 1



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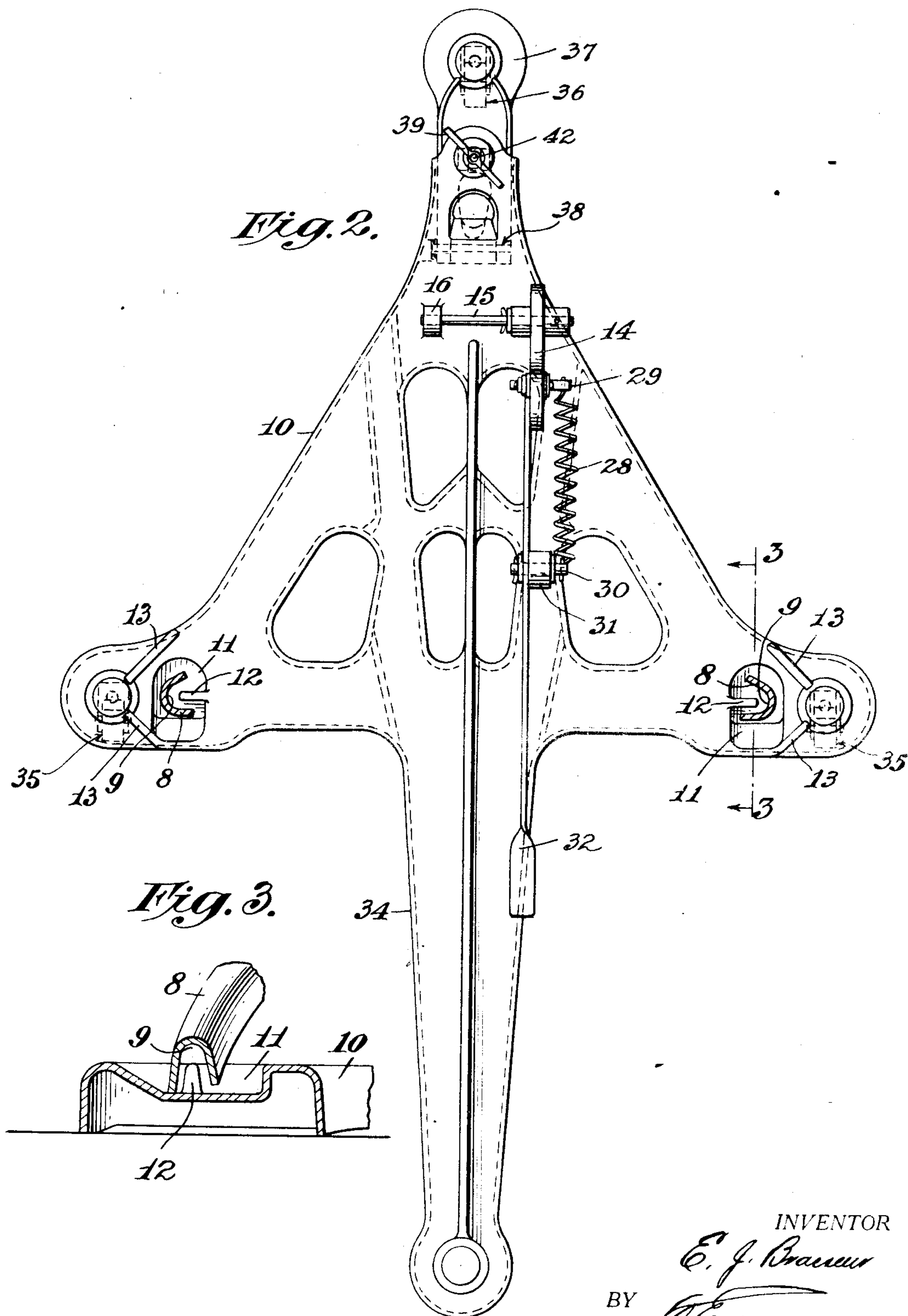
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MOUNT FOR DRAWING TABLES AND THE LIKE

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# UNITED STATES PATENT OFFICE.

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MOUNT FOR DRAWING TABLES AND THE LIKE.

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This invention relates to a mount for drawing tables, or the like, and more particularly relates to a device adapted to present and hold a work supporting structure, such as a drawing table, or the like, in a conveniently tilted position desired, to facilitate the execution of the work; and the principal object of my invention is to provide such a device.

The mount is especially well suited for a drawing and tracing table of a well known construction, designed primarily for use in preparing stencils for stencil duplicating machines. Such construction comprises a standard having at its upper end a box-like member in the shape of an inverted, truncated, pyramid, the larger free end or base of which carries a frame in which is supported a transparent or translucent sheet of glass held in a framework which also carries a sheet of celluloid or other medium of a flexible and transparent or translucent character, and a pattern sheet is usually interposed between the supporting sheet of glass and the superimposed sheet of celluloid. A sheet of waxed paper or other suitable stencil material is then placed upon the flexible sheet, and the user cuts the stencil sheet with a stylus, tracing the lines of the pattern.

It is customary for such apparatus to be provided with means situated within the truncated member, usually near its base, serving to illuminate the pattern and stencil sheet by light transmitted through the supporting sheets of glass and celluloid, and the standard member or base of such apparatus ordinarily consists of a tripod or other conventional arrangement of legs connected rigidly with the standard and designed to be set in a single upright position upon the floor or other support.

An important object of the present invention is to provide an auxiliary, separately formed base, or mount, adapted to receive the legs of such a drawing and tracing table in such a manner as to permit the structure to be tilted at any desired angle suitable and convenient for the execution of work, this mount or auxiliary base having also means to hold the table, or like device, in adjusted tilted position.

Another object of the invention is to provide means by which the holding means can be readily operated, preferably by the movement of the user's foot, so that the user can

tilt the supported apparatus manually to any position best suited to the work in hand, and can secure the attaching device in its new position without any necessity for leaving the seat or other place of operation.

Still another object of the invention is to construct such a mount or auxiliary base in the form of a unitary organized structure, self-contained, and which can be attached to, and removed from, the apparatus which it supports, and which will be interchangeable for use with any of a series of standard tracing devices of the class for use with which it is intended.

Other objects of my invention will be in part obvious and in part pointed out hereinafter.

The various features of this invention will be illustrated and described fully in the accompanying drawings and specification and pointed out in the claims.

In the drawings Fig. 1 is a view in side elevation of an appliance for supporting tracing apparatus, constructed in accordance with this invention, and shown with a tracing-desk held in adjusted position thereon. Fig. 2 is a plan view of the appliance shown in Fig. 1, isolated, except for small portions of the apparatus to be supported, these portions being indicated in horizontal section. Fig. 3 is a vertical section on the line 3—3 of Fig. 2. Fig. 4 is a view in transverse section on the diagonal line 4—4 of Fig. 1. Fig. 5 is a fragmentary, horizontal section on the diagonal line 5—5 of Fig. 1.

In the embodiment of my invention selected for illustration and description to permit ready and complete understanding of my improvements, the part designated by the reference numeral 1 is an apparatus in the nature of a tracing-desk, in which the object to be traced and the stencil or other medium on which the tracing is to be made are supported upon a tracing-table 2, the structure of which may be of conventional character, or of any suitable form, and need not be described herein, except to state briefly that the part designated by the reference numeral 3 is the usual box in the form of an inverted truncated pyramid having an electric lamp at 4 to illuminate the work, being supplied with electric current by a conductor 5, which leads upward through the standard 1, and the latter is shown as mounted upon a



base 6 the latter being a tripod with legs 7 of conventional form.

This form of apparatus usually is constructed to be set upon the floor or other support in an upright position, and in carrying out an important object of my present invention, I have provided means to support such apparatus firmly in a position tilted bodily at the angle which may at any time be most convenient to the operator in performing the operation of tracing.

For the above purpose, as a convenient form of means, I have shown an auxiliary base 10 comprising a frame formed of suitable metal, such as cast iron, of any shape and dimensions suited to the particular apparatus for use with which the auxiliary base is intended.

In the instance illustrated, the body portion is of triangular contour, and in the apices at the base of the triangle, I have provided recessed seats 11 to receive the feet 8 of two legs 7 of the tripod. The latter may be tilted upon these seats into the position shown in Fig. 1, or into any suitable angular position relatively to the auxiliary base, and as means to prevent the feet 8 from sliding out of the seats 11 when so tilted, I have shown central upward projections 12 which register with grooves 9 in the legs (see Fig. 3) and I provide, preferably, outer guards or winglike-members 13 for the same purpose, and to afford a pleasing finish, these members 13 also serving to prevent accidental contact with the tripod feet 8 which might tend to displace the same from their seats.

As one form of suitable means to hold the tracing-desk in its adjusted tilted position, I have shown at 14 an elongated member mounted pivotally upon an axis 15 carried by a lug 16 formed on the auxiliary base at a region of the body portion extending forward as shown, and this swinging holding-member is shown as having a longitudinal slot 17 and is further provided with a plate 18 riveted thereto at 19 and having a series of notches 20, which form offset extensions of the slot.

To co-operate with this notched plate, I have shown the leg 21 of the tripod as provided with a collar 22 surrounding the leg and having a yoke 23 operated by a bolt 24 into engagement with the webs of the leg 21, and exerting a clamping action sufficiently to hold the collar in adjusted position as indicated. This collar has also a projection 25 taking the form, in the instance illustrated, of a post screwed at 26 into the material of the collar, and projecting into the path of the swinging member 14, so that it passes through the slot 17, and its shank 27 may enter one of the notches 20 which at any time registers therewith.

To maintain these parts in a co-operating position, suitable means may be provided,

such as a spring 28, which connects at one end with a pin 29 upon the member 14, and at its other end connects with a similar pin 30 carried by a lug 31 extending upward from the auxiliary base.

As means to control the movements of the member 14, I have shown a foot-lever 32 extending from a position convenient for operation by the user, forward to a position where it is connected by a link 33 with the pin 29 upon the member 14, this foot-lever being fulcrumed on the axis 30. When the foot-lever 32 is depressed, it swings forward the member 14, so that the shank 27 of the projection 25 is released from the notch 20 at that time occupied by it, and the user may grasp the table 2 and tilt the apparatus 1 into any desired position, the co-operating members 14 and 27 working into a new position according to the degree of tilting, and the spring 28 operating to swing the holding-member 14 back into a holding position similar to that illustrated in Fig. 1.

I prefer to provide the auxiliary base with a rearward extension 34 for the sake of stability, and in order that the base may be readily moved into any desired position, I have provided a three point castor bearing, as indicated by the reference numerals 35, a fourth castor 36 being provided at a region removed considerably from the three point bearing, this fourth castor being mounted upon a carriage 37 hinged at 38 to the forward portion of the frame, where it may be secured in adjusted position by a thumb-nut 39 which has a collar 41 formed upon its bolt 42 in such a fashion that the carriage 37 and its connected parts may be adjusted to, and removed from, the auxiliary base, without the use of any tools.

Having illustrated and described my invention thus fully, and suitable means by which the same may be carried into effect, it is to be understood that I do not limit myself to the structural forms and materials selected for illustration and description, nor in general do I limit myself otherwise than as set forth in the claim read in connection with this specification.

What I claim as new, and desire to secure by Letters Patent is:—

1. A mount for apparatus of the class described, having supporting legs, said mount including a base and seats to receive a plurality of said legs tiltingly, and a holding-device mounted on said base and having means to be secured adjustably to another of said legs, to hold said apparatus in different tilted positions relatively to said base.

2. A mount for apparatus of the class described, having at least three supporting legs, said mount including a base and seats to receive a plurality of said legs tiltingly, and a holding-device mounted on said base and having means to be secured adjustably to an-



other of said legs, to hold said apparatus in different tilted positions relatively to said base.

3. A mount for apparatus of the class described, having at least three supporting legs, said mount including a base and seats to receive two of said legs tiltingly, and a holding-device mounted on said base and having means to be secured adjustably to another of said legs, to hold said apparatus in different tilted positions relative to said base.

4. An auxiliary-base for apparatus of the class having supporting legs, said auxiliary-base comprising a frame having spaced seats to receive and support tiltingly a plurality of said legs, and having means to be secured removably to another of said legs, to hold said apparatus in adjusted position tilted bodily relatively to said auxiliary base.

5. An auxiliary-base for apparatus of the class having supporting legs, said auxiliary-base comprising a frame having spaced seats to receive and support tiltingly a plurality of said legs, and having a strut mounted pivotally thereon, and a member to be secured to another of said legs, and to be engaged with said strut at different regions, and retained in adjusted connective relation therewith, to hold said apparatus in any of a plurality of angular positions tilted bodily relatively to said auxiliary-base.

6. An auxiliary base for apparatus of the class having supporting legs, said auxiliary base comprising a frame having a body-portion with laterally spaced seats to receive and support tiltingly two of said legs, said body-portion having extensions forward and rearward of the region of said seats, said forward extension being provided with a holding device to be secured to another of said legs to hold said apparatus in position tilted rearwardly over the region of said seats, and said rearward extension serving to prevent rearward tilting of said auxiliary base and said apparatus relatively to a floor or like support.

7. An auxiliary base for supporting in bodily tilted position apparatus of the class having three supporting legs, said auxiliary base having spaced recessed seats respectively provided with central projections, and with peripheral walls, to permit a limited tilting movement of said legs upon said seats; and a collar to be mounted adjustably upon the third leg, with clamping means to secure said collar in adjusted position; said auxiliary base having also an elongated member mounted swingingly thereon in position to extend upward past said collar, said swinging member having a longitudinal slot, with offset notches to receive a projection upon said collar; and means to control the relative movements of said swinging member and collar; and to maintain said members in adjusted relative position.

8. A mount for apparatus of the class described, having supporting legs, said mount including a base and seats to receive a plurality of said legs tiltingly, and a holding-device mounted on said base and having means to be secured adjustably to another of said legs, to hold said apparatus in different tilted positions relatively to said base, and means to adjust said holding device manually to adjust the tilt of the apparatus on the base.

9. A mount for apparatus of the class described, having supporting legs, said mount including a base and seats to receive a plurality of legs tiltingly, and a notched member pivoted on the base and adjustably engageable with a projection secured to one of said supporting legs, whereby said apparatus may be held in different tilted positions on said base.

10. A mount for apparatus of the class described, having supporting legs, said mount including a base and seats to receive a plurality of legs tiltingly, and a notched member pivoted on the base and adjustably engageable with a projection secured to one of said supporting legs, whereby said apparatus may be held in different tilted positions on said base, and foot mechanism for disengaging said notched member from said projection to permit adjustment of the apparatus on the base.

11. A mount for apparatus of the class described, having supporting legs, said mount having seats to receive a plurality of said legs tiltingly, and a holding device adapted to be secured adjustably to another of said legs whereby the apparatus may be adjusted and held in different tilted positions on the mount, said mount including a body portion having a three-point under-bearing and a fourth under-bearing spaced widely from said three points and adjustable vertically on the mount.

12. A mount for apparatus of the class described, having supporting legs, said mount having seats to receive a plurality of said legs tiltingly, and a holding device adapted to be secured adjustably to another of said legs whereby the apparatus may be adjusted and held in different tilted positions on the mount, said mount including a body portion having a three-point under-bearing and a fourth under-bearing spaced widely from said three points and adjustable vertically on the mount, said mount including a carriage in which said fourth bearing is mounted for vertical adjustment.

13. A mount for apparatus of the class described, having supporting legs, said mount having seats to receive a plurality of said legs tiltingly, and a holding device adapted to be secured adjustably to another of said legs whereby the apparatus may be adjusted and held in different tilted positions on the

mount, said mount including a body portion having a three-point under-bearing and a fourth under-bearing spaced widely from said three points and adjustable vertically on the mount, said mount including a carriage in which said fourth bearing is mounted for vertical adjustment, said carriage being hinged to the mount and having a turn-button to main it in adjusted position with respect thereto.

This specification signed this 14th day of March, 1924.

ERNEST J. BRASSEUR.