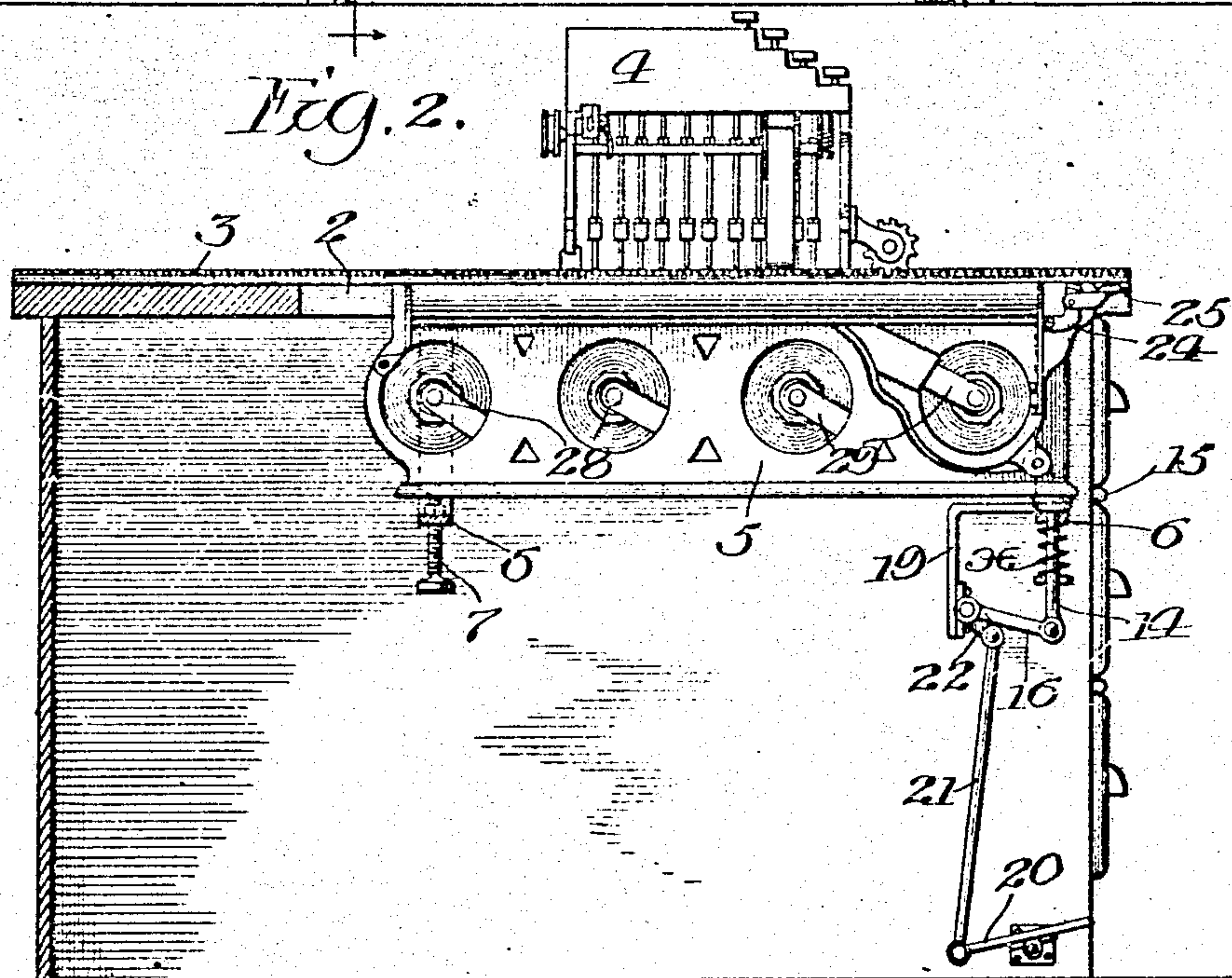
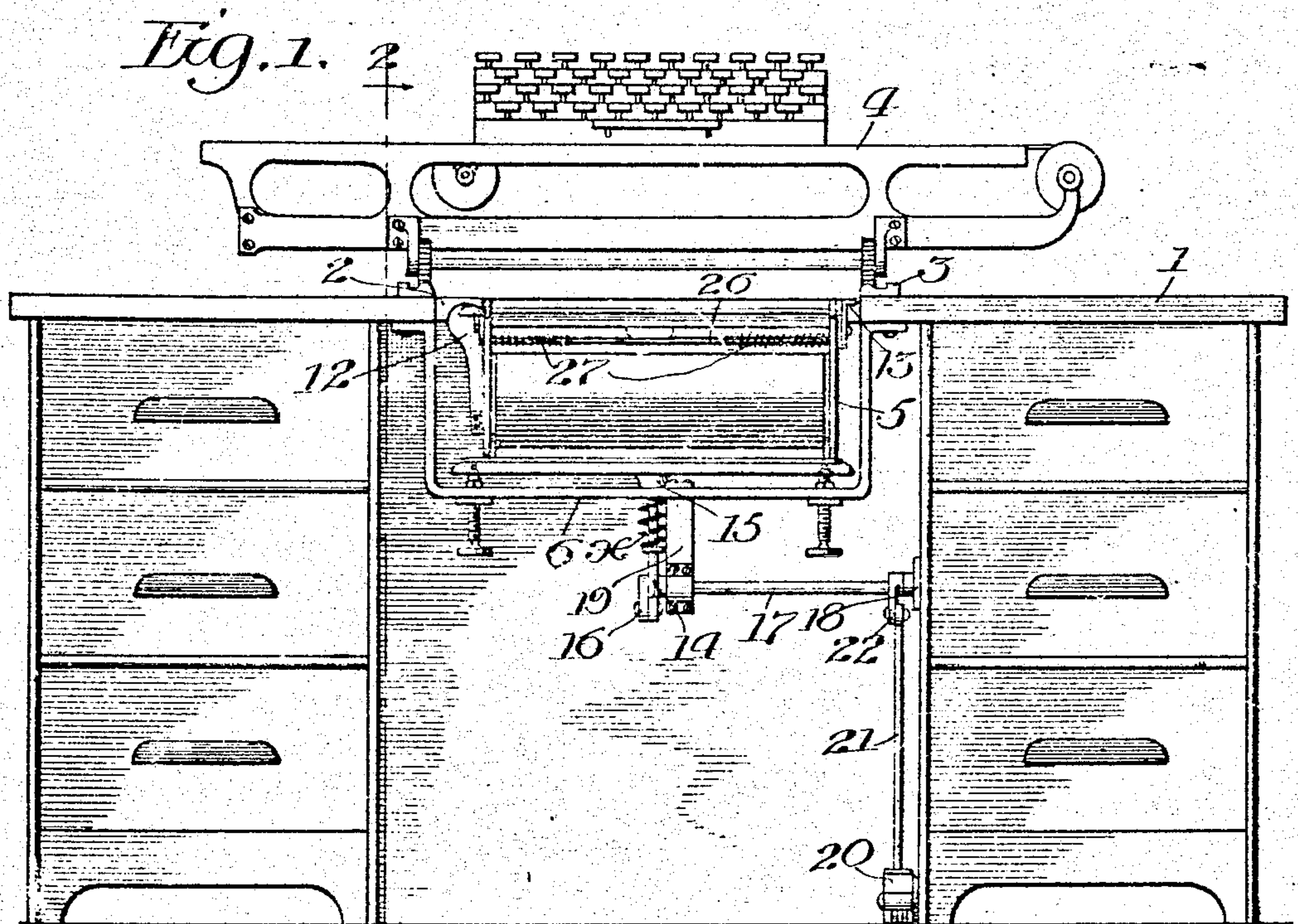


E. J. BARKER.
 MEANS FOR COMBINING AUTGRAPHIC REGISTERS AND TYPE WRITERS.
 APPLICATION FILED FEB. 13, 1909. Patented Sept. 20, 1910.
 970,780. 3 SHEETS-SHEET 1.



Witnesses
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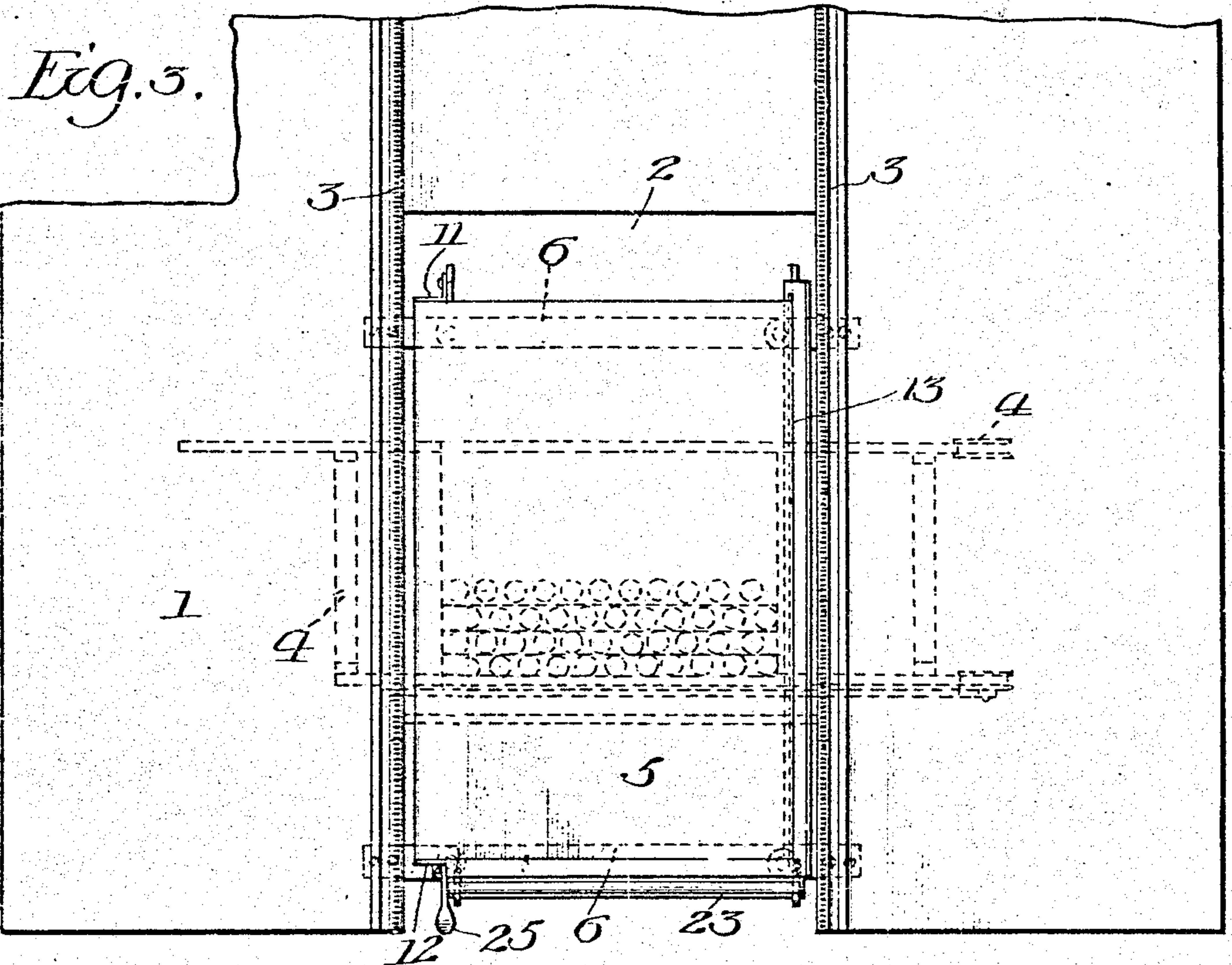


Fig. 4.

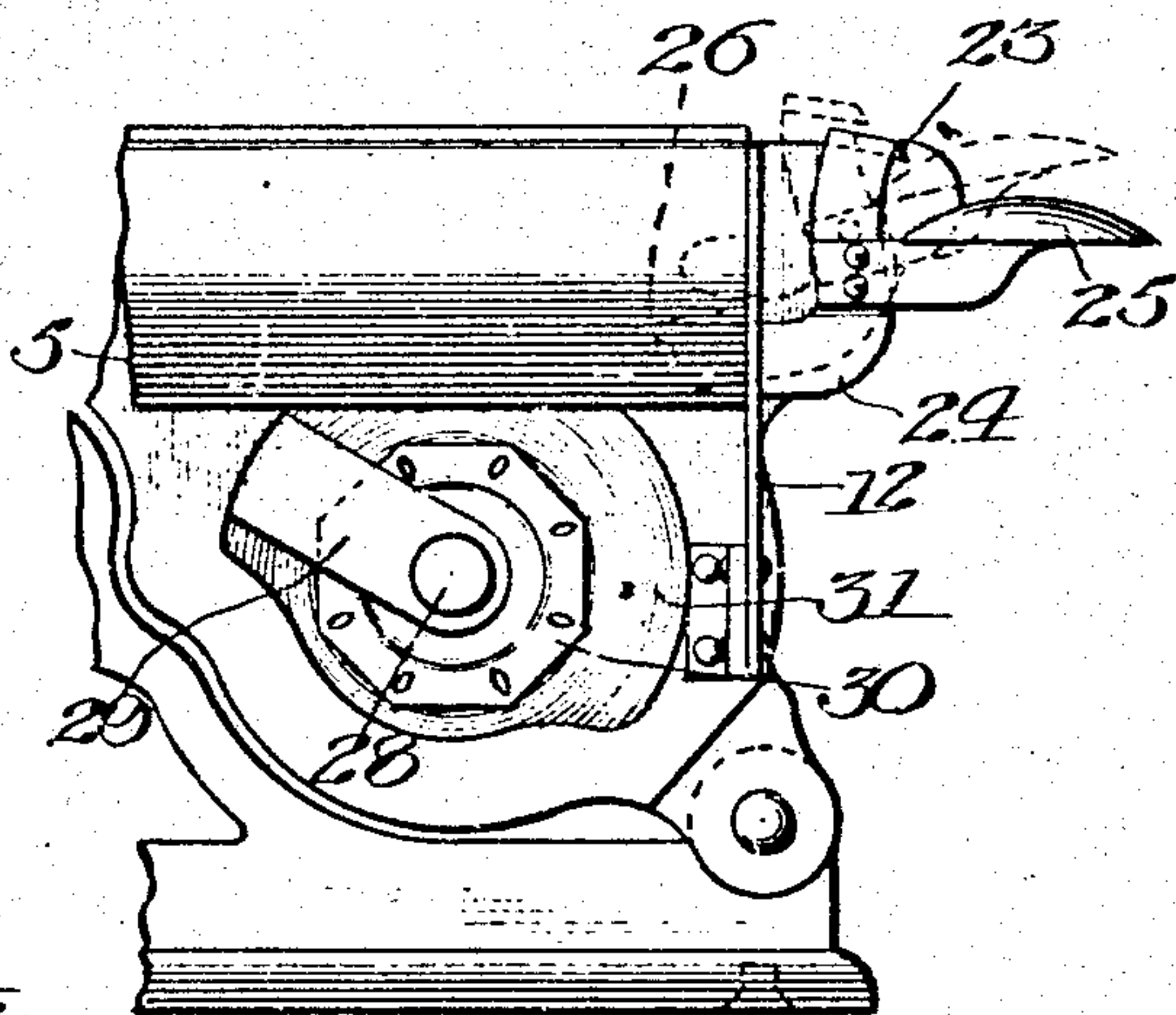
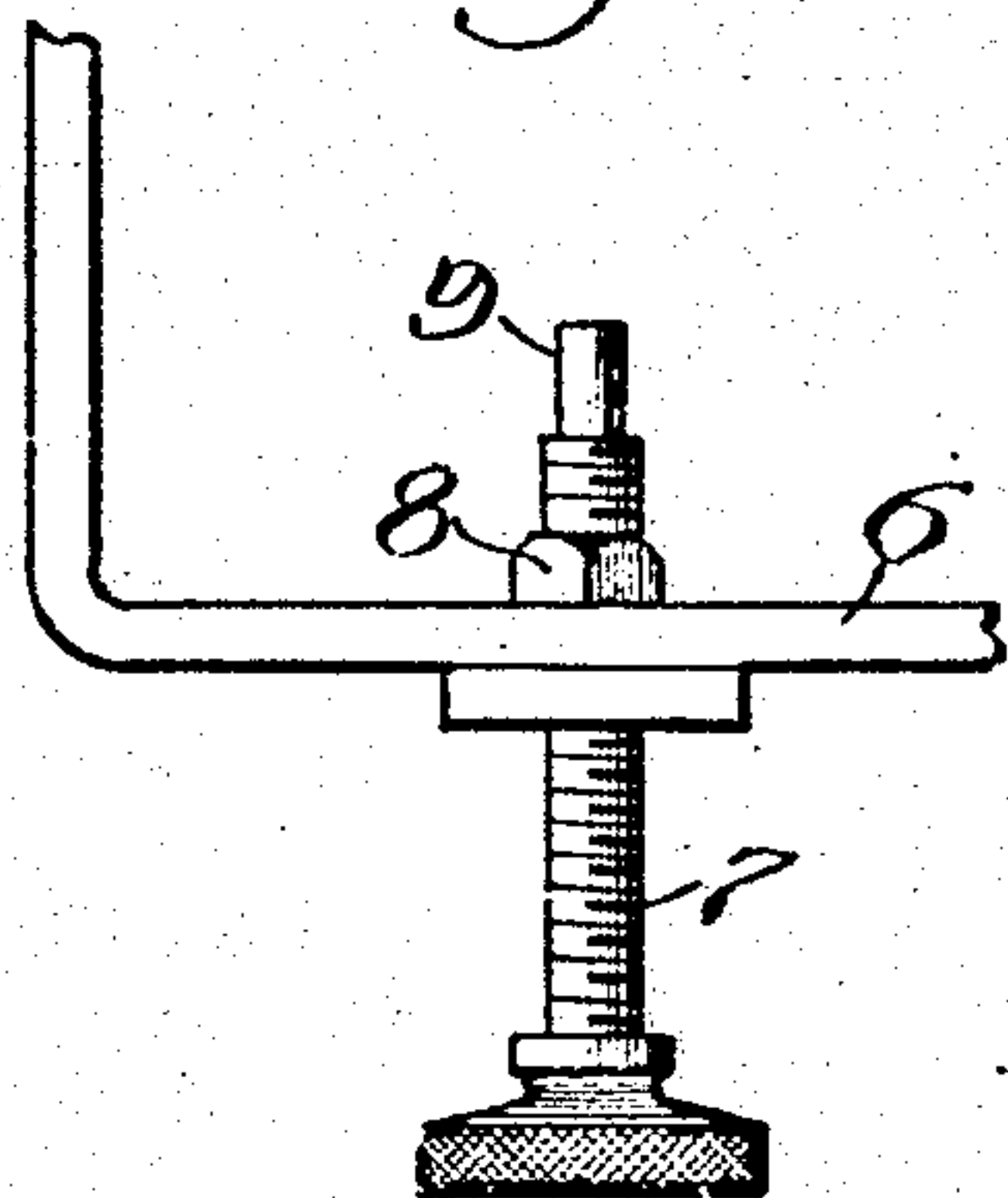
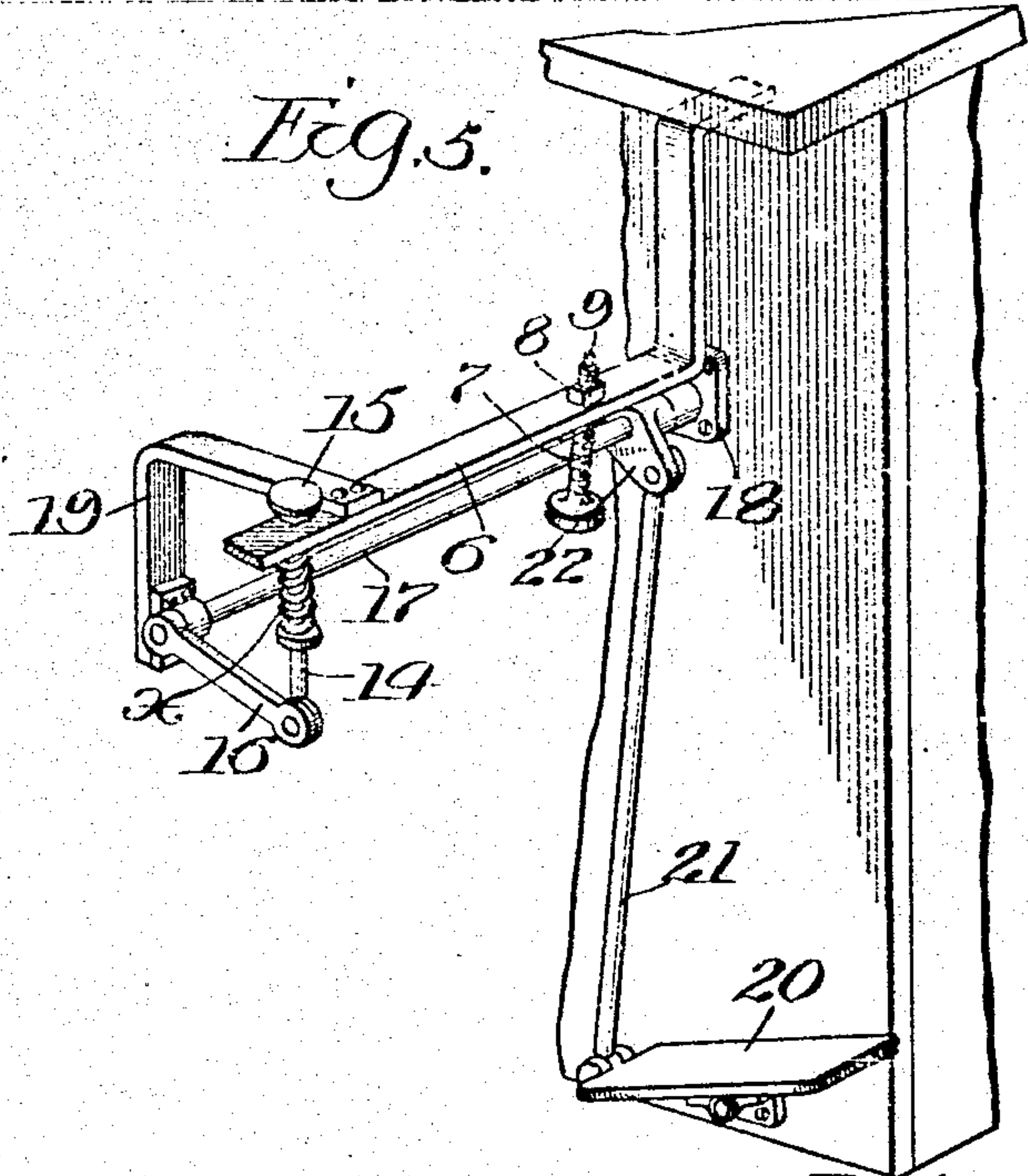
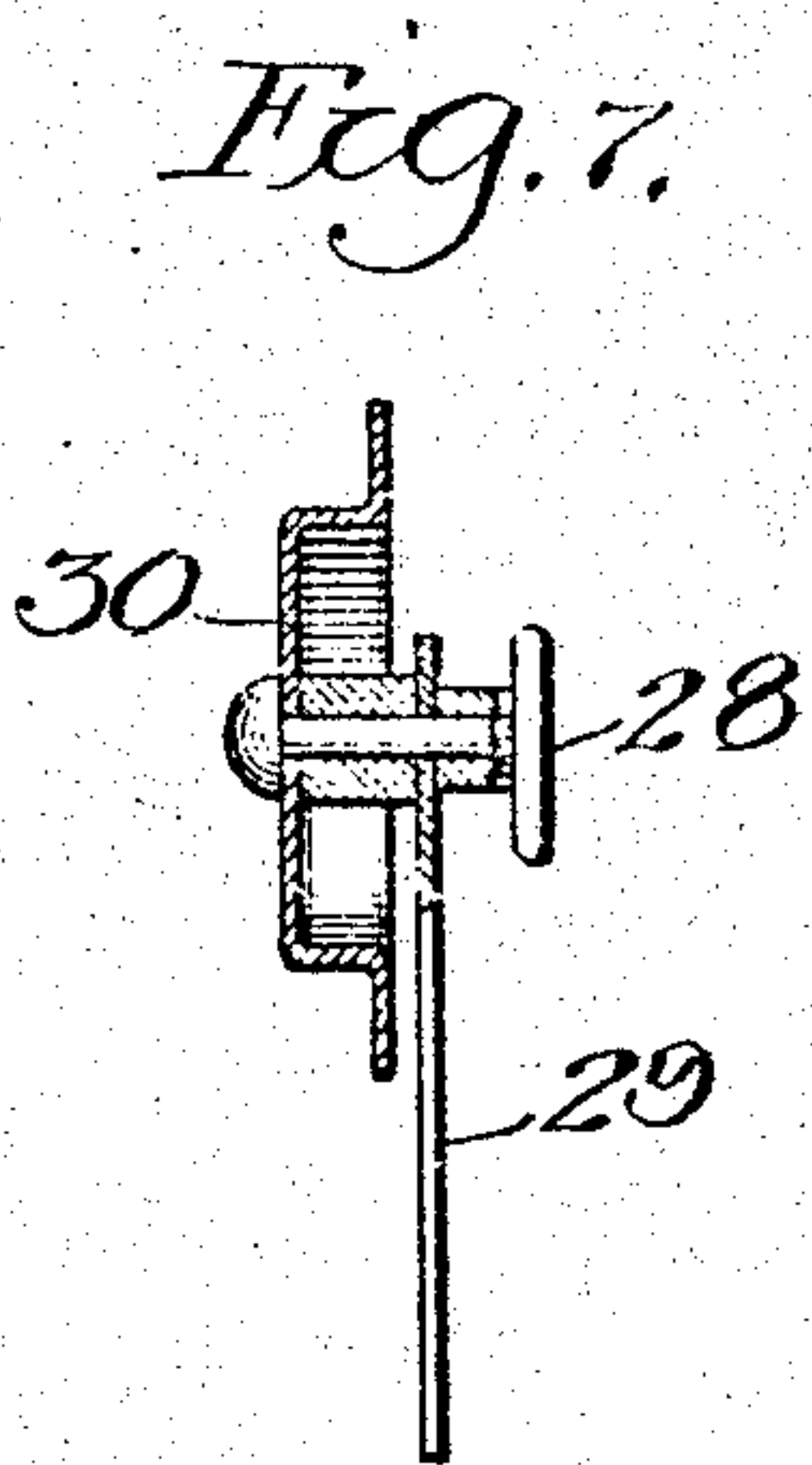
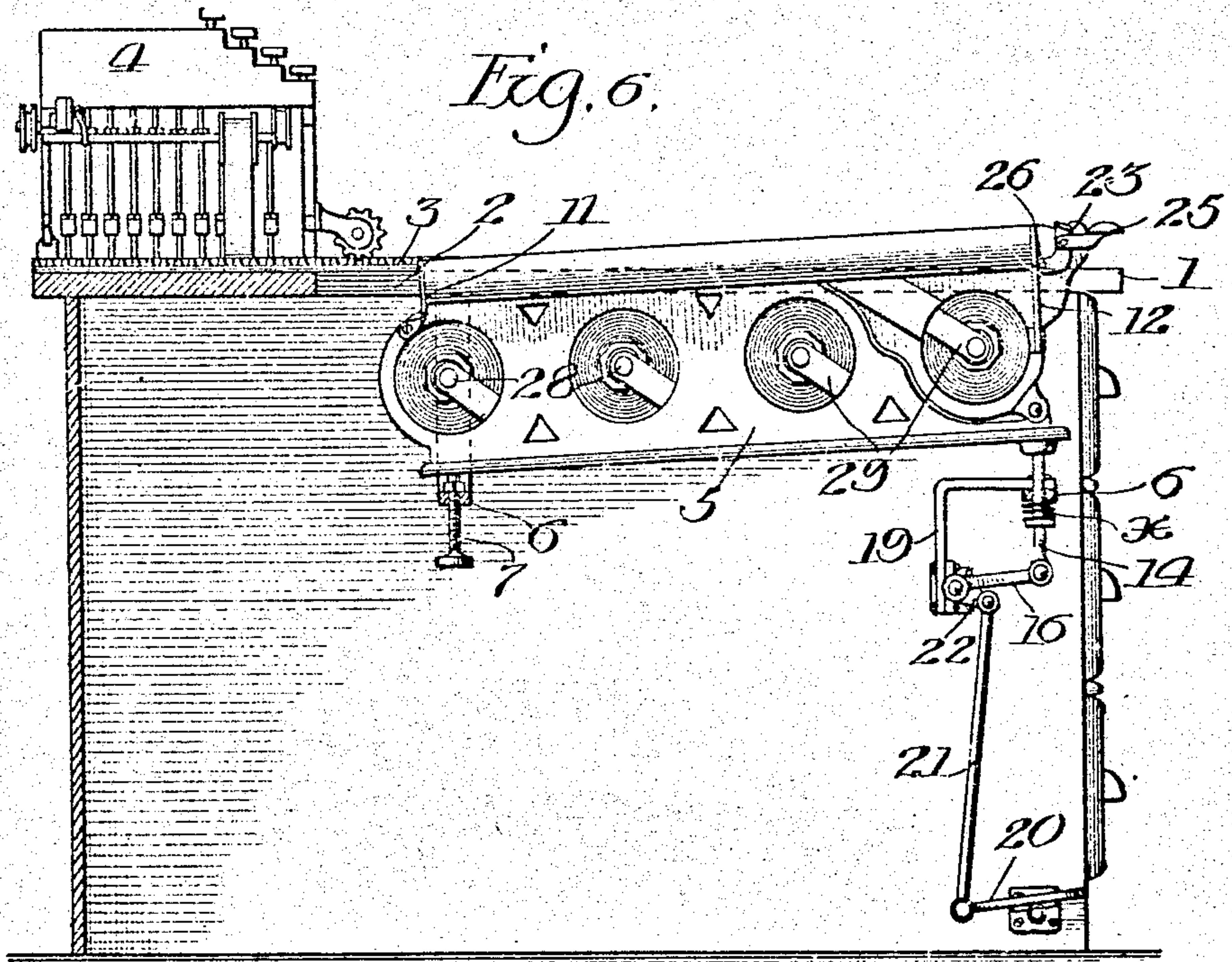


Fig. 8.



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UNITED STATES PATENT OFFICE.

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MEANS FOR COMBINING AUTOGRAPHIC REGISTERS AND TYPE-WRITERS.

970,780.

Specification of Letters Patent. Patented Sept. 20, 1910.

Application filed February 13, 1909. Serial No. 477,624.

To all whom it may concern:

Be it known that I, ENGLAND J. BARKER, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Means for Combining Autographic Registers and Type-Writers, of which the following is a clear, full, and exact description.

10 My invention relates to means whereby autographic registers and typewriters may be combined with each other in such relative positions that the writing of the latter may be conveniently received upon the writing bed of the former and thus employ the combined machine for use in billing, invoicing and the like.

20 It is the object of my invention to provide convenient means that may be readily attached to an ordinary desk or table whereby the two machines may be used in combination with each other, without altering the construction or operation of either machine.

25 It is also an object of my invention to do this in such a manner that the devices may be combined in such a simple and easy manner that even an inexperienced person can put the same together properly without much trouble.

30 Another object of my invention is to provide means whereby the manifolding material used between the record strips of the register, may be conveniently adjusted in the register without the necessity of having to remove either the register or the typewriter.

35 All of these objects I accomplish by the means fully described in the following specification and as more particularly set forth in the claims.

40 In the drawings:—Figure 1 is a vertical front elevation of a desk showing my invention applied thereto for the purpose of using a writing machine of the book-typewriter type to write upon an autographic register. Fig. 2 is a transverse vertical section thereof, taken on line 2—2 of Fig. 1 and looking in the direction of the arrows. Fig. 3 is a top plan view showing the typewriter mounted thereon in dotted lines. Fig. 4 is a vertical side elevation of a fragmentary portion of the autographic register showing the improved manner of mounting the paper rolls and the means for operating the cutting edge thereof. Fig. 5 is a fragmentary detail, drawn in perspective, of the devices em-

ployed for elevating the autographic register for the purpose of manipulating or removing the manifolding material. Fig. 6 is a view, similar to Fig. 2 showing the typewriter moved to the rearmost portion of its tracks and the register elevated at its front edge for the purpose of removing the manifolding material. Fig. 7 is an enlarged detail view, of one of the journaling hubs of the autographic register. Fig. 8 is an enlarged detail view of one of the register adjusting bolts.

Referring to the drawings, 1 represents a suitable desk the central portion of top of which is cut away to provide a transversely disposed rectangular opening 2 that extends from the front to near the rear portion of the desk. Securely mounted on each of the longitudinal edges of this opening are suitable tracks, 3, 3, on which the wheels of a book typewriting machine 4, of any well-known type, are adapted to run. Mounted below this typewriting machine, preferably with its platen or writing surface substantially in the plane of the top of the desk is an autographic register 5 of the manifolding type. In order to mount this register in proper position relative to the typewriter it is necessary that the platen of said register should be always parallel to and in the writing plane of the typewriting machine. I accomplish this by mounting suitable brackets or hangers upon the desk and provide means thereon for adjusting the register toward or away from the typewriting machine. The means for mounting the autographic register preferably comprise two or more substantially U-shaped hangers or straps 6, 6, that have the upper ends of their vertical parallel members bent laterally to themselves and are secured to the underside of the top of the desk in any suitable manner. These brackets 6 are disposed one near the front of the desk and the other toward the rear thereof and are spaced so that the forward and rear edges respectively of the autographic register 5 will rest upon and be supported thereby. At or near each end of the horizontal portion of these brackets the same are provided with suitable hand-operated bolts or thumb-screws 7, 7, that are preferably tapped transversely through the brackets and are provided with lock nuts 8 on the portions of their shanks extending above the brackets. The upper ends of these thumb-screws are preferably reduced in di-

ameter and turned smooth so as to provide suitable extensions 9 that project up into suitable counter sunk recesses that are formed at or near the corners of the base plate of the autographic register. By turning these thumb-screws the relative position of the writing platen of the register is adjusted toward or away from the typewriter so as to give the latter a proper writing surface.

When two or more copies of invoices, bills, or the like, are desired the additional copies are usually made by means of manifolding material passed between the record strips of the register. This manifolding material is preferably journaled on suitable bearing studs 11 and 12 (the latter mounted on a flexible plate) on the side of the register, and said material extends across the platen of the register where it passes through a slot on the inner edge of a cutting plate 13. When it is desired to remove this manifolding material the same is drawn transversely across the register and then the used portion may be torn off along the cutting edge 13. In order to accomplish this in the combined register and typewriter device above described it would ordinarily be necessary to remove the typewriting machine from its tracks and then either remove the register from its brackets or elevate the forward edge of the register sufficiently to permit the operator to insert his hand between the edge of the register and the desk, in order to pull out the manifolding material. I overcome this objection by suitable mechanism that I have devised for this particular purpose and which is shown in detail in Figs. 5 and 6 of the drawings. In this construction, a reciprocal plunger 14 is loosely mounted in the forward bracket, and has its upper end, that extends above said bracket, provided with a pivoted disk 15 that is kept normally in contact with the underside of the forward edge of the register by a coil spring. This plunger extends down below the bracket where its lower end engages the outer end of a lever 16 of the third class whose opposite end is mounted on a rock shaft 17. One of the ends of this rock shaft is mounted in a bearing plate 18 secured to the desk while its opposite end is journaled in bearings in a hanger 19 depending from the forward bracket 6. This shaft is rocked by a suitable foot-treadle 20 secured to the lower portion of the desk and connected by a rod 21 to a laterally projecting arm 22 of a sleeve or collar secured to said rock shaft. When the forward portion of the treadle is depressed the arm 22 is moved upward, thereby rocking shaft 17 and raising the outer end of lever 16 so that the same will push the plunger 14 up through its bearing and elevate the front edge of the register as shown in Fig. 6 of the drawings. This

will permit the operator to readily withdraw the manifolding material from the side of the register after having first moved the typewriting machine to the rear of its tracks.

In order to remove the record strips, and also to prevent the same from slipping, the forward end of said register is provided with a cutting edge 23 that extends across the same and has its ends mounted in the upper ends of suitable L-shaped arms 24 that are pivoted to the side-frames of the register. A suitable handle 25 projects forward from the register and is so arranged that by lifting the handle the cutting edge is raised from the record paper and the same may be grasped by the operator and withdrawn from the register. In order to keep the cutting edge normally in contact with the platen of the register, the pivotal pin of the L-shaped arms is preferably secured to the rock-shaft 26 that extends between the side-frames of the register and a coiled spring 27 interposed between said side-frames surrounds said shaft 26 and keeps the cutting edge in its normal position pressing down against the forward edge of the platen of the register. The journaling hubs for the paper rolls are preferably made to revolve with said paper rolls so as to permit the strips to be extracted without unnecessary friction. This is done by securing a headed bolt 28 transversely in the free ends of the spring plate 29 and then swiveling a disk-shaped journaling boss 30 on the inner extended end thereof on which the roll of paper 31 is mounted.

I do not wish to be understood as limiting myself to the specific means shown and described for supporting and adjusting the register for it is quite obvious that instead of the U-shaped straps, a straight bar having laterally bent ends A, A, as suggested in dotted lines in Fig. 1 of the drawings might be employed, the ends being secured to the sides of the desk. Or, if found convenient, a suitable table or stand of the proper height to bring the platen of the register in the writing plane of the typewriter might be used. Also I do not desire to be limited to the particular means for elevating the register to remove or adjust the manifolding material as it is possible to raise the entire register in a plane parallel to its normal plane and then manipulate the manifolding material. All such modifications it will be understood are included within the scope of my invention.

What I claim as new is:—

1. A desk or table having an opening in its top, means for supporting a typewriter over said opening, and devices for retaining an autographic register within said opening below said typewriter comprising brackets secured to said desk adjacent said opening

having laterally bent portions and separately adjustable devices, on which each corner of said register rests.

2. A desk or table having an opening in its top, tracks extending alongside of each side of said opening for supporting a typewriter over said opening, and devices for retaining an autographic register within said opening below said typewriter comprising brackets secured to said desk adjacent said opening having laterally bent portions and separately adjustable devices on which each corner of said register rests.

3. A desk or table having an opening in its top, means for supporting a typewriter over said opening, and devices for retaining an autographic register within said opening below said typewriter comprising substantially U-shaped brackets the ends of the parallel arms of which are secured to said desk adjacent said opening, and separately adjustable devices on which each corner of the register rests.

4. A desk or table having an opening in its top, tracks extending along each side of said opening for supporting a typewriter over said opening, and devices for retaining an autographic register within said opening below said typewriter comprising substantially U-shaped brackets the ends of the parallel arms of which are secured to said desk adjacent said opening and separately adjustable devices on which each corner of the register rests.

5. A desk or table having an opening in its top, means for supporting a typewriter over said opening, and devices for retaining an autographic register within said opening below said typewriter comprising substantially U-shaped hangers depending from said desk and separately operating adjusting screws tapped through the horizontal portion thereof on which each corner of said register rests.

6. A desk or table having an opening in its top, tracks extending along each side of said opening for supporting a typewriter over said opening, and devices for retaining an autographic register within said opening below said typewriter comprising substantially U-shaped hangers depending from said desk and separately operating adjusting screws tapped through the horizontal portion thereof on which each corner of said register rests.

7. A desk or table having an opening in its top, means for supporting a typewriter over said opening, separate devices for retaining and adjusting each corner of an autographic register within said opening below said typewriter, and mechanism for tilting one edge of said register off said devices.

8. A desk or table having an opening in its top, tracks extending along each side of

said opening for supporting a typewriter over said opening, separate devices for retaining and adjusting each corner of an autographic register within said opening below said typewriter, and mechanism for tilting one edge of said register off said devices.

9. A desk or table having an opening in its top, means for supporting a typewriter over said opening, separate devices at each corner for adjustably retaining an autographic register within said opening below said typewriter, and mechanism for tilting one edge of said register off said devices.

10. A desk or table having an opening in its top, means for supporting a typewriter over said opening, substantially U-shaped brackets extending across said opening below the plane of the same for retaining an autographic register within said opening below said typewriter, separately adjustable devices on which each corner of said register rests, and mechanism for tilting one edge of said register off said devices.

11. A desk or table having an opening in its top, means for supporting a typewriter over said opening, substantially U-shaped brackets extending across said opening below the plane of the same for retaining an autographic register within said opening below said typewriter, separately adjustable devices on which each corner of said register rests, a reciprocal plunger engaging one edge of said register to tilt the same off said devices, and mechanism for reciprocating said plunger.

12. A desk or table having an opening in its top, means for supporting a typewriter over said opening, brackets for retaining an autographic register within said opening below said typewriter, a reciprocal plunger mounted in the horizontal portion of one of said brackets adapted to engage the adjacent edge of said register and tilt the same, and mechanism for reciprocating said plunger.

13. A desk or table having an opening in its top, means for supporting a typewriter over said opening, brackets for retaining an autographic register within said opening below said typewriter, a reciprocal plunger mounted in the horizontal portion of the forward bracket adapted to engage the adjacent edge of said register and tilt the same, a rock-shaft having a crank on one end adapted to engage and reciprocate said plunger, and means for rocking said shaft.

14. A desk or table having an opening in its top, means for supporting a typewriter over said opening, brackets for retaining an autographic register within said opening below said typewriter, a reciprocal plunger mounted in the horizontal portion of the forward bracket adapted to engage the adjacent edge of said register and tilt the same, a rock-shaft having a crank on one end adapted to engage and reciprocate said

plunger, a foot treadle connected by a link to said shaft for rocking the same.

15. A desk or table having an opening in its top, means for supporting a typewriter over said opening, brackets extending across said opening, adjusting screws tapped through the horizontal portion of said brackets for retaining an autographic register within said opening below said typewriter, and mechanism for tilting one edge of said register.

16. A desk or table having an opening in its top, means for supporting a typewriter over said opening, brackets extending across said opening, adjusting screws tapped through the horizontal portion of said brackets for retaining an autographic register within said opening below said typewriter, a reciprocal plunger adapted to engage one edge of said register and tilt the same, and mechanism for reciprocating said plunger.

17. A desk or table having an opening in its top, means for supporting a typewriter over said opening, brackets extending across said opening, adjusting screws tapped through the horizontal portion of said brackets for retaining an autographic register within said opening below said typewriter, a reciprocal plunger mounted in the horizontal portion of the forward bracket adapted to engage the adjacent edge of said register and tilt the same, and mechanism for reciprocating said plunger.

18. A desk or table having an opening in its top, means for supporting a typewriter over said opening, brackets extending across said opening, adjusting screws tapped through the horizontal portion of said brackets for retaining an autographic register within said opening below said typewriter, a reciprocal plunger mounted in the

horizontal portion of the forward bracket adapted to engage the adjacent edge of said register and tilt the same, a rock-shaft having a crank at one end that engages said plunger, and means for rocking said shaft.

19. A desk or table having an opening in its top, means for supporting a typewriter over said opening, brackets extending across said opening, adjusting screws tapped through the horizontal portion of said brackets for retaining an autographic register within said opening below said typewriter, a reciprocal plunger mounted in the horizontal portion of the forward bracket adapted to engage the adjacent edge of said register and tilt the same, a rock-shaft having a crank at one end that engages said plunger, a foot-treadle connected by a link to said shaft for rocking the same.

20. A desk or table having an opening in its top, tracks extending along each side of said opening for supporting a typewriter over the same, brackets extending across said opening, adjusting screws tapped through the horizontal portion of said brackets for retaining an autographic register within said opening below said typewriter, a reciprocal plunger mounted in the horizontal portion of the forward bracket adapted to engage the adjacent edge of said register and tilt the same, a rock-shaft having a crank at one end that engages said plunger, and a foot treadle connected by a link to said shaft for rocking the same.

In testimony whereof I have hereunto set my hand and seal this 9th day of February A. D., 1909.

ENGLAND J. BARKER. [L. S.]

Witnesses:

E. K. LUNDY,
M. E. MARTIN.