

PAPER DIRECTING ATTACHMENT FOR TYPE WRITING MACHINES.

Patented June 22, 1909.

925,576.



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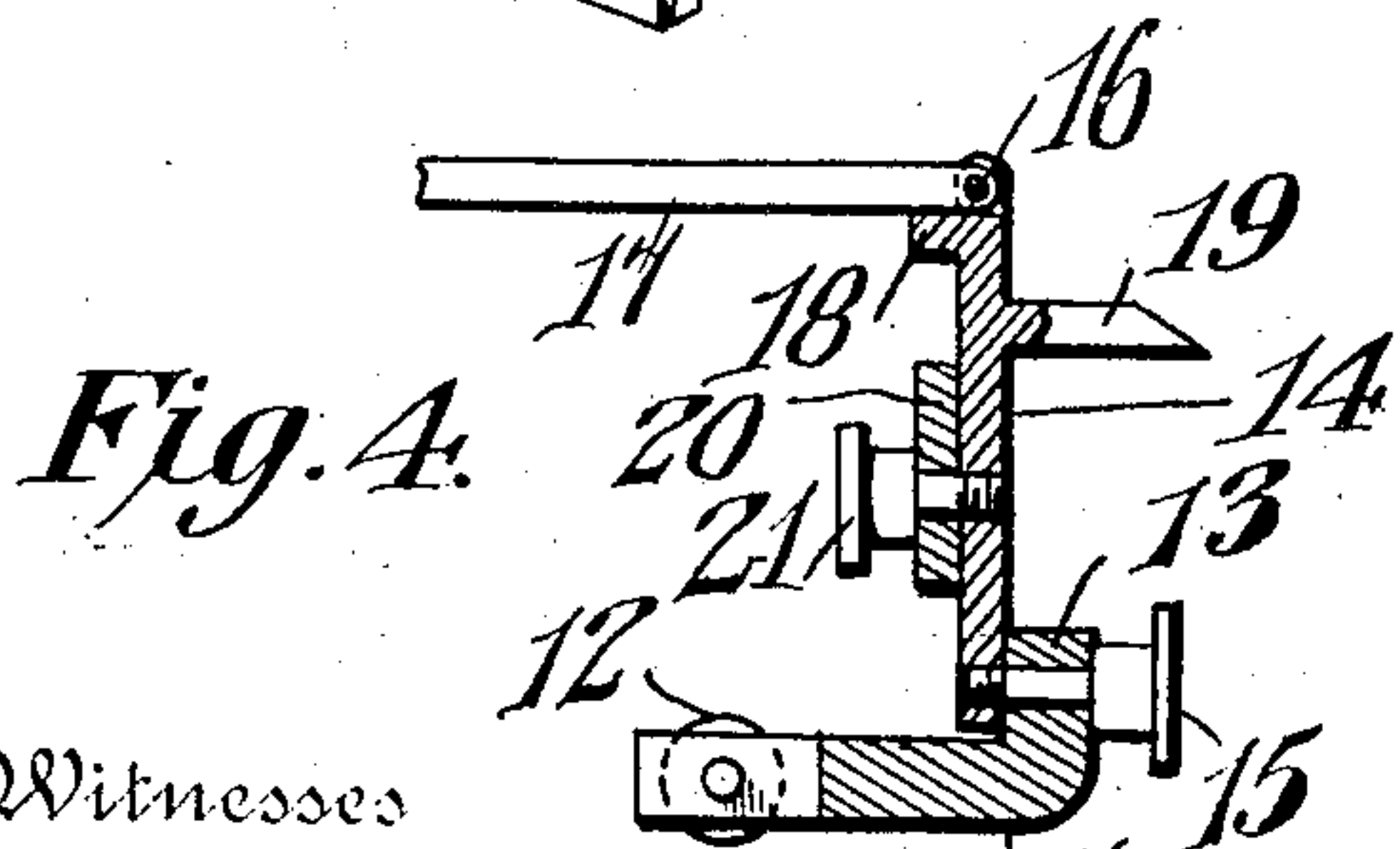
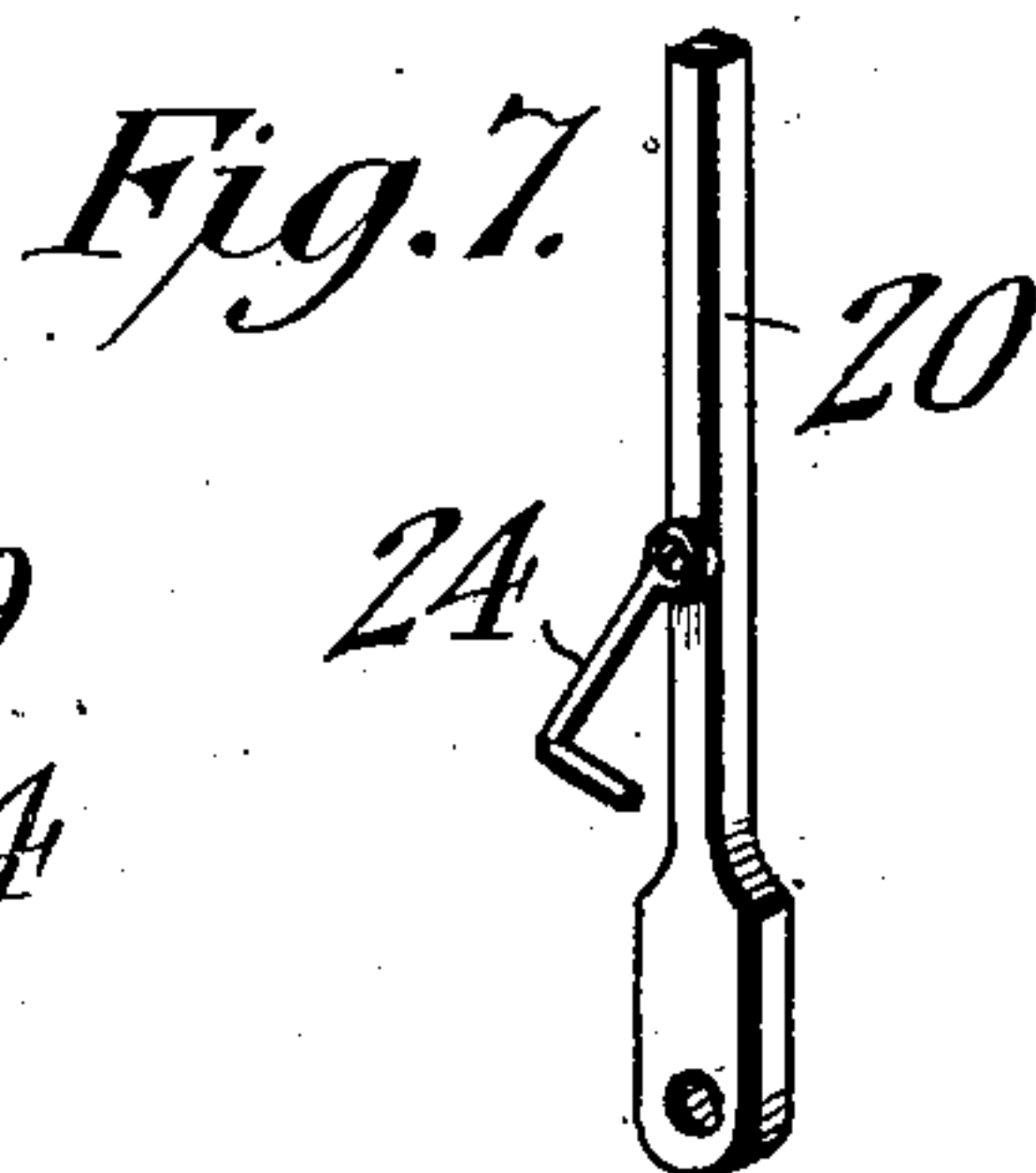
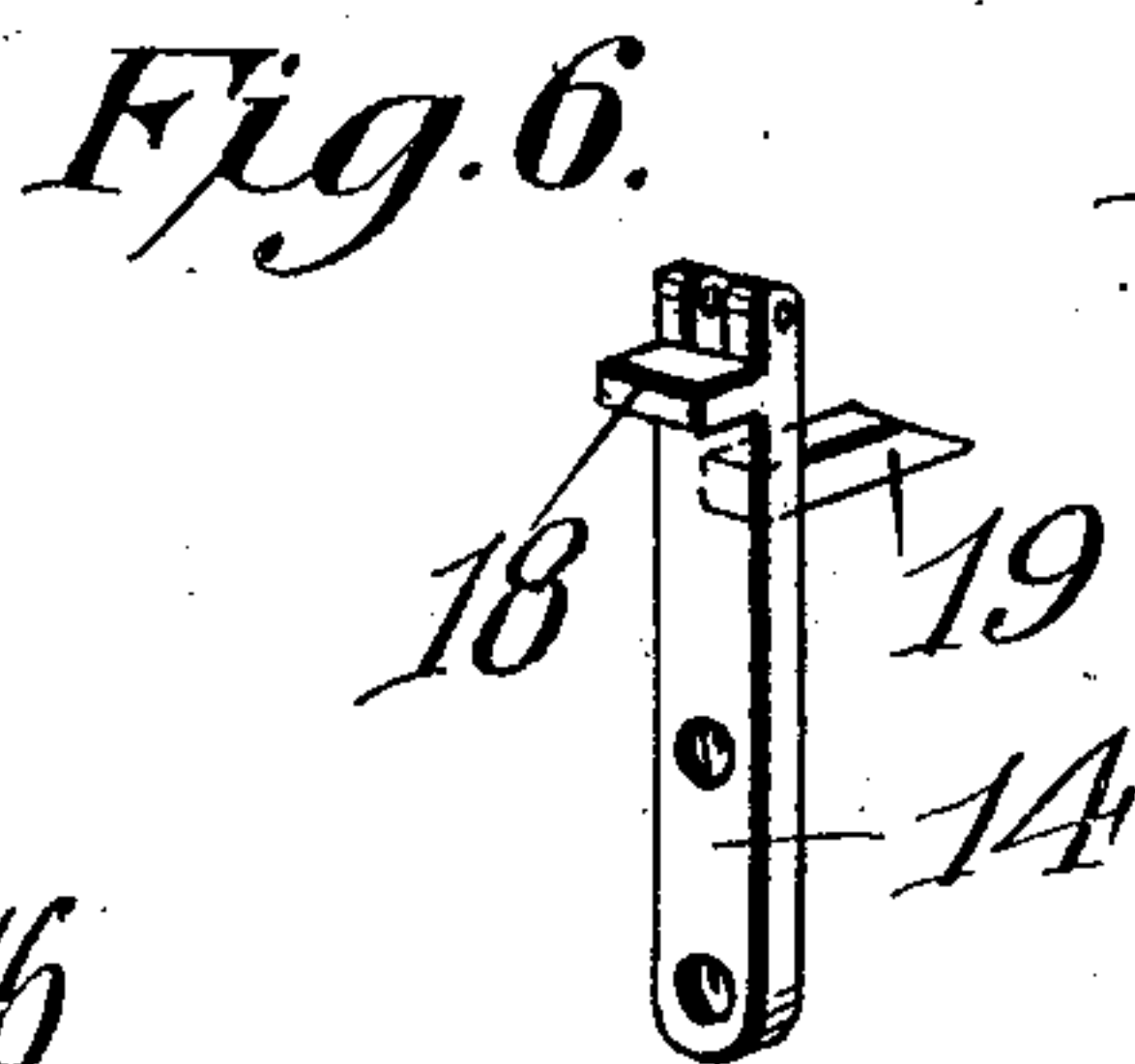
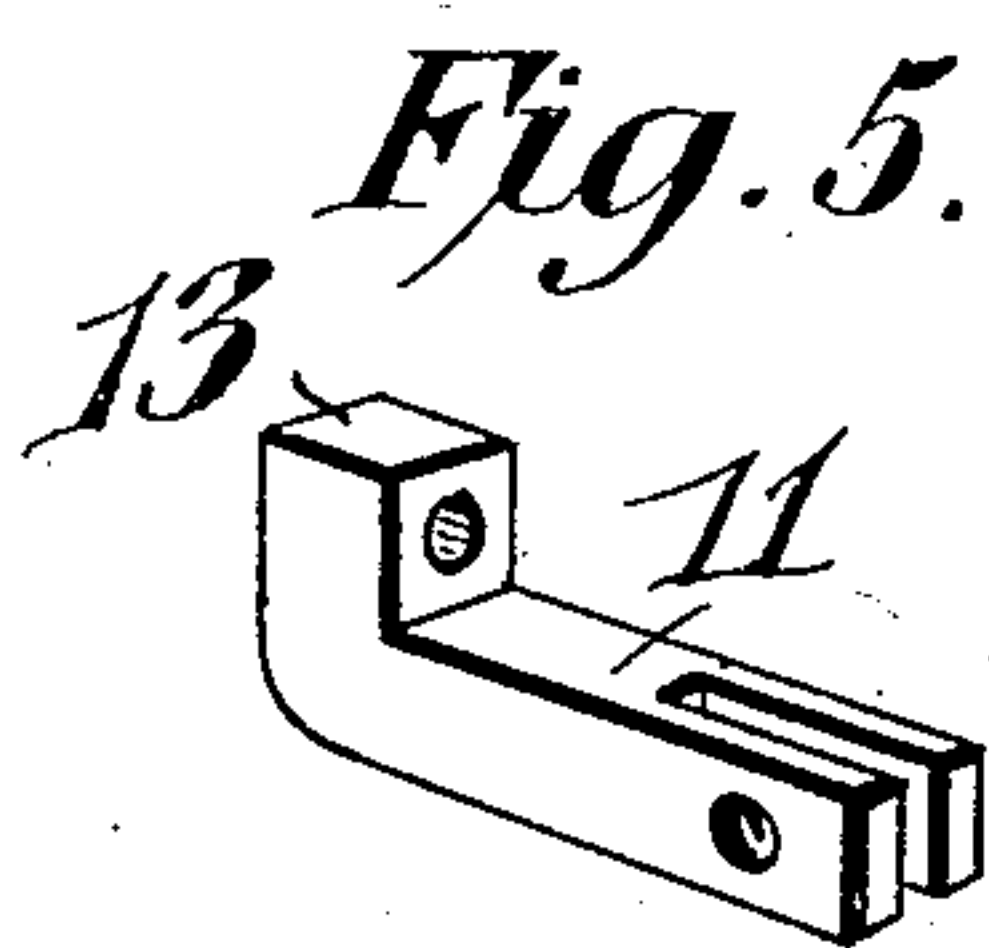
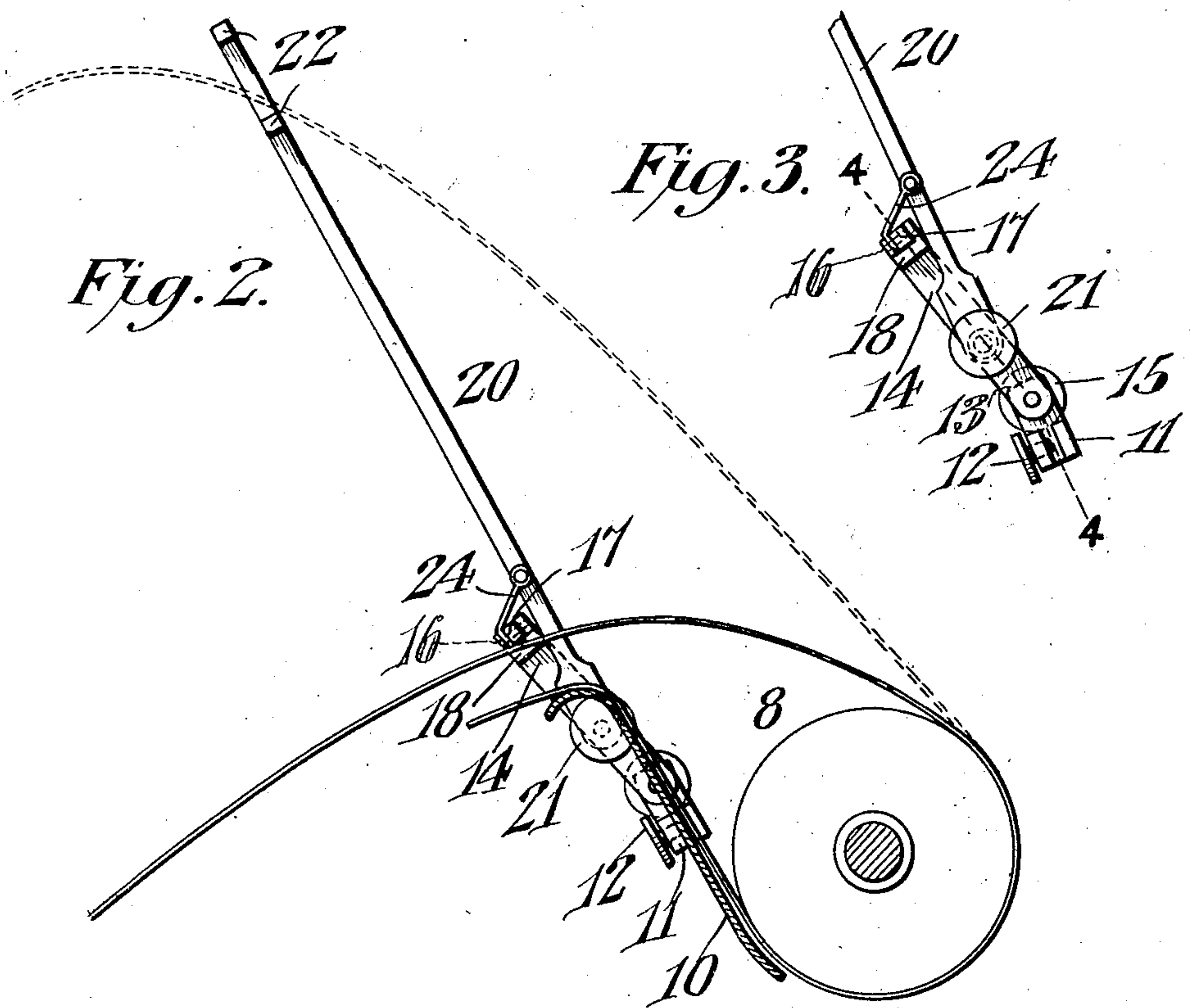
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 PAPER DIRECTING ATTACHMENT FOR TYPE WRITING MACHINES.
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 2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

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PAPER-DIRECTING ATTACHMENT FOR TYPE-WRITING MACHINES.

No. 925,576.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, BRYCE P. GIBBS, a citizen of the United States, residing at Winslow, in the county of Navajo and Territory of Arizona, have invented a new and useful Paper-Directing Attachment for Type-Writing Machines, of which the following is a specification.

In the use of typewriting machines, and more particularly those having a front strike and visible writing, the paper will often fall forward into a position to obstruct a view of the writing and sometimes it will even drop into the type basket so as to interfere with the proper operation of the machine. This is particularly apt to occur where there is a breeze or draft.

One of the primary objects of the present invention is to provide a novel and very simple attachment that can be applied by the operator to any well known type of machine, and will effectively maintain the paper in its rear position, and will not in any manner interfere with the ordinary use of the machine.

A further and important object is to provide means for properly directing and holding long sheets, such as record sheets, said means permitting the easy introduction into the machine of short sheets without disturbing the record sheet already in place.

The preferred embodiment of the invention is illustrated in the accompanying drawings, wherein:—

Figure 1 is a perspective view of a portion of a typewriting machine, showing the attachment in place. Fig. 2 is a sectional view. Fig. 3 is a detail view of the attachment separate from the machine. Fig. 4 is a sectional view on the line 4—4 of Fig. 3. Fig. 5 is a detail perspective view of the supporting clip. Fig. 6 is a similar view of the post. Fig. 7 is a detail perspective view of a portion of the bar for support; the upper arms.

Similar reference numerals designate corresponding parts in all the figures of the drawings.

In the embodiment illustrated, the machine, which may be of any well known type, is provided with the usual platen 8 and printing mechanism 9. In rear of the platen, is located a paper table 10, and to this table, the attachment is applied. The attachment comprises a support 11, in the form of a clip that is arranged to embrace and may be

placed upon either end of the paper table. It is provided with a set screw 12 threaded through one side and adapted to clamp the clip in place. Said clip is provided with an upturned terminal 13, to which is pivoted a post 14. The pivot is in the form of a set screw 15 passing through the terminal 13, and threaded into the post 14, said set screw thus constituting means for securing the post against movement on the clip and in different adjusted positions. The upper end of this post is bifurcated and pivoted in the bifurcation, as shown at 16, is a paper holding and directing arm 17, the arm swinging upwardly and rearwardly longitudinally of the carriage, as will be evident by reference to Fig. 1. In its operative position, it is located over the paper table 10, but is maintained in spaced relation thereto by a stop lug 18 carried by the post 14 and retained in the path of movement by the arm. Another and oppositely extending lug 19 limits the outward or rear swinging movement of the arm, as will be clear by reference to Fig. 1.

For ordinary work, the arm 17 is sufficient, and it will be evident that if it is placed over the paper, it will securely hold the same in its rear position upon the table 10, thus preventing the objections noted in the preliminary portion of the specification. When the paper is first introduced into the machine, the holding and directing arm 17 is located over the rear portion thereof, and as the front end of the paper moves from the platen, it can be directed rearwardly under the arm. Said arm is furthermore readily swung out of the way so that it will not interfere with the introduction or removal of the paper. Moreover the device can be readily attached to any machine as it requires merely the application of the clip to either end of the paper table, as may be desired and the adjustment of the post 14 to a position which will hold the arm 17 in a position deemed most suitable.

For the purpose of holding long sheets, such as record sheets and the like, a bar 20 may be employed, which is attached to the post 14 by a set screw 21 constituting a pivot. This bar is provided at its upper end with spaced parallel arms 22 arranged in angular relation to said bar, and extending above the arm 17. The arms 22 are supported solely by the bar 20 and have their opposite ends spaced apart, with the space between them entirely unobstructed. A handle 23 projects

from the side of the bar opposite to the arms 22, and a hook 24 may be employed, which is pivoted to said bar, and is arranged to engage over the arm 17. With this construction, if long sheets, as for instance record and carbon sheets are employed, the former to receive the copies of a plurality of short letters or the like, the long sheets are passed between the arms 22 and when a short sheet is to be introduced, the bar 20 with said arms is swung forwardly so that the short sheet may be introduced into the machine without difficulty. The hook 24 need only be employed in case it is desired to adjust the post 14 forwardly to a position where the bar 20 would not rest against the arm 17. This structure can be readily detached by removing the set screw 21 when long sheets of the character outlined are not used. When however, it is used, the device is preferably applied to the left end of the machine for the reason that if it were placed at the right end and the device were hurriedly thrown back against the bar 17, the thumb screw 15 might become loose. It will be evident, however, that if the attachment is applied to the left end of the paper table, it will make no difference how hard the device is thrown against the bar 17, as it will only cause the thumb screw to be tightened, thus making it impossible to fall backward. An additional advantage in this structure is that the cover may be applied to the typewriting machine without the necessity of removing the attachment therefrom for the reason that the arm 20 with the parts supported thereon can be swung forwardly so as not to interfere with the cover.

From the foregoing, it is thought that the construction, operation and many advantages of the herein described invention will be apparent to those skilled in the art, without further description, and it will be understood that various changes in the size, shape, proportion and minor details of construction, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is:—

1. In a typewriting machine, the combination with a platen and printing mechanism, of a paper table associated with the platen, and paper holding and directing means attached to the paper table and foldable downwardly over the platen when not in use and provided with a pair of parallel arms spaced apart to permit paper to be removed laterally from between them.

2. In a typewriting machine, the combination with a platen and printing mechanism, of a paper table associated with the platen, a clip embracing and detachably mounted on the table at one end thereof,

and paper holding and directing means carried by the clip and consisting of an arm disposed parallel with the platen at a point above the table and adapted to be thrown to one side to facilitate the application of the paper to the platen.

3. An attachment of the character set forth, comprising a clip adapted to embrace the paper table of a typewriting machine, and paper holding and directing means carried by said clip and consisting of a plurality of horizontal arms spaced apart vertically to support the paper delivered from the platen at different heights, said arms being supported only at one end and free at their other ends to permit the paper to be moved laterally therefrom.

4. An attachment of the character set forth, comprising a clip adapted to embrace the paper table of a typewriting machine, a post carried by the clip, and a paper holding and directing arm pivoted on the post.

5. An attachment of the character set forth, comprising a support, means for securing the same upon a typewriting machine, a post adjustably mounted on the support, and a paper holding and directing arm movably mounted on the post to be changed to or from operative or inoperative position.

6. An attachment of the character set forth, comprising a clip adapted to embrace the paper table of a typewriting machine, a set screw for securing the clip in place, a post pivotally mounted on the clip, a set screw for holding the post against movement on said clip, and a paper holding and directing arm pivoted on the post.

7. In a typewriting machine, the combination with a carriage having a platen, of printing mechanism, and a paper holding and directing arm normally parallel with and spaced from the platen and pivoted on the carriage with one end free.

8. In a typewriting machine, the combination with a carriage having a platen, of printing mechanism, a paper holding and directing arm normally parallel with and spaced behind the platen and pivoted on the carriage and swinging in a direction longitudinally of said carriage, and means for limiting the swinging movement of the arm in both directions.

9. An attachment of the character set forth, comprising a post, means for attaching the post to a typewriting machine, a swinging paper holding arm pivoted on the post, and stops carried by the post and located in the path of movement of the arm and arranged respectively to hold the latter, when in operative position, spaced behind the plate of the machine, and when in inoperative position, at one side of the machine.

10. An attachment of the character set forth, comprising a clip adapted to embrace the paper table of a typewriting machine, a

set screw for securing the clip in place, a post pivotally mounted on the clip, a set screw for holding the post against movement on the clip, a swinging paper holding arm on the post, and oppositely extending stop lugs carried by the post and disposed in the path of movement of the arm.

11. An attachment of the character set forth, comprising a post, means for attaching the same to a typewriting machine, and a pair of paper holding and directing arms supported at one end by the post and having their other opposite ends spaced apart with the space between said ends unobstructed.

12. An attachment of the character set forth, comprising a post, a clip for attaching the post to the paper table of a typewriting machine, and a pair of substantially parallel paper holding and directing arms pivotally supported at one end on the post.

13. An attachment of the character set forth, comprising a clip adapted to embrace the paper table of a typewriting machine, a post pivotally mounted on the clip, a bar pivoted on the post, and spaced parallel arms carried by the free end of the bar and disposed in angular relation thereto.

14. An attachment of the character set forth, comprising a support, means for securing the same to a typewriting machine, and a

plurality of separately-movable paper-holding devices mounted on the support, one of the devices having spaced arms.

15. An attachment of the character set forth, comprising a support, means for securing the same to a typewriting machine, and a plurality of paper holding arms pivoted on the support and swinging in angularly disposed directions.

16. An attachment of the character set forth, comprising a clip adapted to embrace the paper table of a typewriting machine, a set screw for holding the clip in position, a post pivoted on the clip, a set screw for securing the post against movement, a swinging paper holding arm pivoted on the post, stop lugs carried by the post and disposed in the path of movement of the arm, a bar pivotally mounted on the post, and spaced substantially parallel paper holding and directing arms carried by the upper end of the bar and supported solely thereby.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

BRYCE P. GIBBS.

Witnesses:

GEO. H. KEYES, Jr.,
E. H. DUFFIELD.