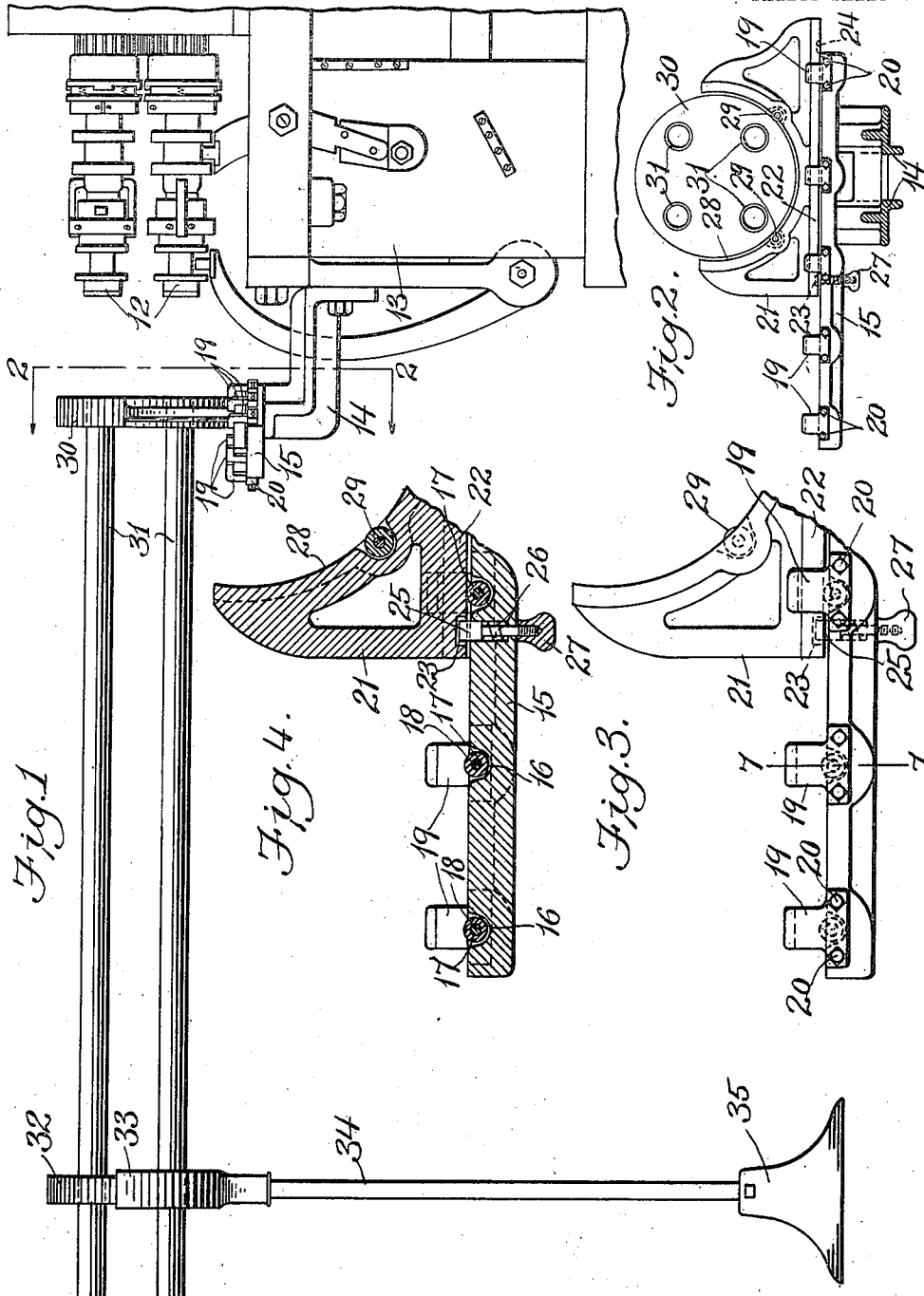


W. VICTORY & W. J. PARSONS.
MAGAZINE FOR AUTOMATIC MACHINES.
APPLICATION FILED DEC. 20, 1912.

1,065,088.

Patented June 17, 1913.

2 SHEETS-SHEET 1.



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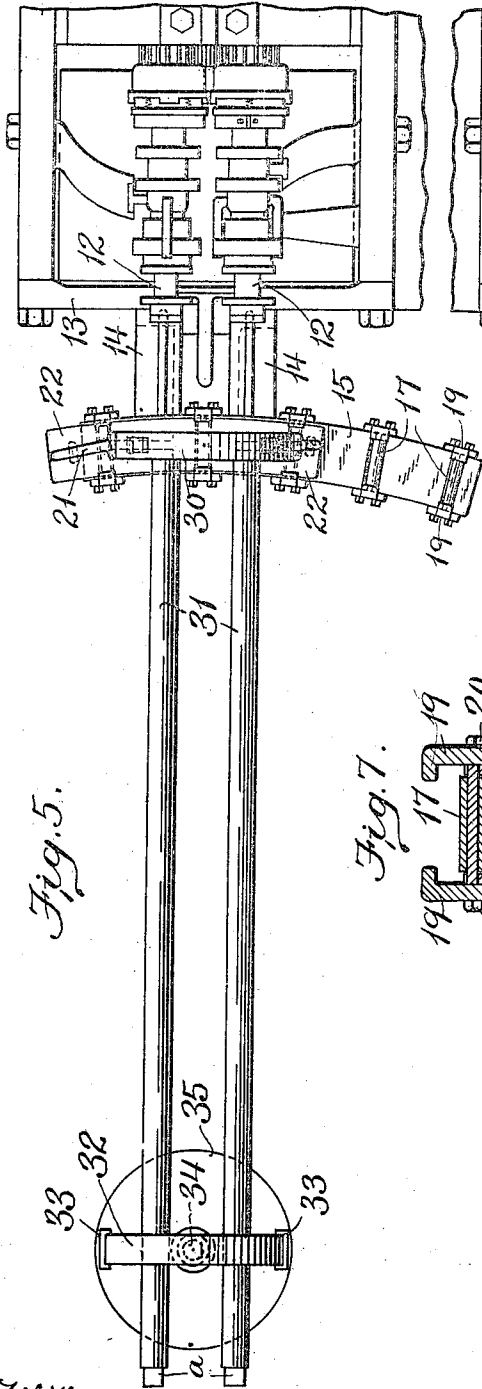


Fig. 5.

Fig. 7.

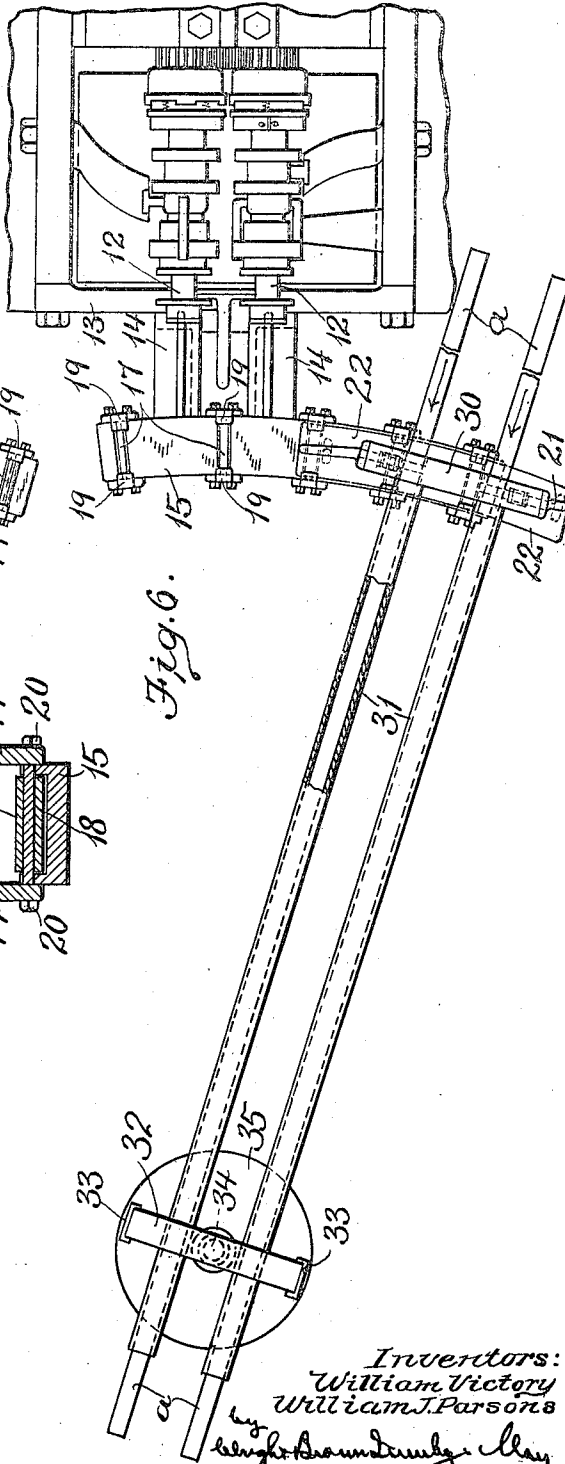
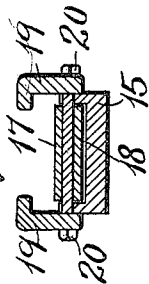


Fig. 6.

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UNITED STATES PATENT OFFICE.

WILLIAM VICTORY AND WILLIAM J. PARSONS, OF MONTAGUE, MASSACHUSETTS,
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MAGAZINE FOR AUTOMATIC MACHINES.

1,065,088.

Specification of Letters Patent.

Patented June 17, 1913.

Application filed December 20, 1912. Serial No. 737,943.

To all whom it may concern:

Be it known that we, WILLIAM VICTORY and WILLIAM J. PARSONS, both citizens of the United States, and residents of Montague, in the county of Franklin and State of Massachusetts, have invented certain new and useful Improvements in Magazines for Automatic Machines, of which the following is a specification.

10 This invention relates to a stock rest or magazine for multi-spindle machines of the type usually known as automatic screw machines, the rods of stock being supported at one end of the automatic machine in position
15 to be turned and otherwise treated and cut off by the machine itself.

Heretofore, so far as we are aware, it has been customary to introduce new pieces of stock to the rest or magazine from the outer
20 end thereof, thus necessitating the attendant going to the rear end of the magazine for loading. As the rods are being revolved at the time, and frequently vibrating, they are liable to catch in his clothing. Moreover,
25 the support for the stock is such that the whole magazine sways more or less back and forth, especially if the stock is slightly bent so as to be crooked.

The object of the present invention is to
30 provide a stock rest or magazine which can be loaded from the front end by which we mean the end nearest the machine which is supplied with the rods of stock whereby
35 time is saved to the attendant when loading because of his not having to go to the rear end of the magazine; and space is saved because the rear end of the magazine can be close to the wall of the shop since it is not necessary to supply new rods from said rear
40 end.

Further objects of the invention are to provide for flexibility or ability of the magazine to sway or move somewhat when crooked stock is being operated upon, and
45 to provide other improvements which will be hereinafter explained.

To these ends the invention consists in the construction and combination of parts

substantially as hereinafter described and claimed.

50 Of the accompanying drawings:—Figure 1 is a side elevation of so much of the multi-spindle machine of a well known form as is necessary to an understanding of the present invention, the said machine having our
55 improvement attached for supporting the stock. Fig. 2 represents a section on line 2—2 of Fig. 1 looking in the direction of the arrows. Fig. 3 is an elevation similar to a portion of Fig. 2 on a larger scale.
60 Fig. 4 represents the portion of the device shown in Fig. 3 but in vertical section. Fig. 5 is a plan view of the mechanism shown in Fig. 1 in position for operation of the machine. Fig. 6 is a similar view showing the
65 stock rest swung aside for loading. Fig. 7 represents a section on line 7—7 of Fig. 3.

The same reference characters indicate the same parts in all the figures.

The work-carrying spindles 12 of the machine which is to be supplied with stock
70 from our improved rest or magazine are shown as having the general characteristics of a well known multi-spindle automatic screw machine, the frame of such machine
75 being indicated at 13. Secured to the frame 13 is a bracket 14 which supports a laterally extended curved platform 15, (Figs. 5 and 6) said platform having recesses 16 (Figs.
80 4 and 7) in which are placed rolls 17 mounted upon shafts 18, the ends of which have bearings in the platform 15. Guide ears 19 are secured to the sides of the platform 15 as by screws 20, said ears serving to guide the carriage 21 which supports the inner or
85 front disk of the stock rest or magazine.

The carriage 21 has a curved foot portion 22 which is mounted to be shifted upon the rolls 17, guided between the ears 19, as illustrated by comparing Figs. 5 and 6. The lower face of the foot portion 22 is provided with two recesses 23, 24 (Figs. 2 and 4) either one of which is adapted to receive the bolt 25 which is mounted in the platform 15 and is pressed upwardly by a spring 26, said
90 bolt having a knob 27 to enable it to be with-

drawn. The recess 23 is preferably larger than the recess 24. At any rate, the recess 23 is sufficiently larger than the bolt 25 so that when the machine is in operation (the bolt 25 occupying said recess 23 when the parts are in the position shown in Fig. 5) there may be sufficient play or lateral movement of the front end of the stock rest to allow the said stock rest to vibrate if the stock in the rest or magazine is crooked.

The carriage 21 is formed with a curved seat 28 preferably provided with antifrictional rolls 29 which may be constructed and mounted similar to the rolls 17. A disk 30 is supported by the rolls 29 and is connected by tubes 31 with a rear disk 32, the latter being supported by a yoke 33 swiveled on the upper end of a standard 34 having a base 35 which may be secured to the floor of the machine shop. Obviously, instead of having the yoke 33 swiveled, it may be rigidly connected with the standard 34 and the latter swiveled or pivoted in the base 35. The object of this pivotal support for the rear end of the rest or magazine is to enable the other end of the magazine to be laterally swung as shown by comparing Figs. 5 and 6.

When the rest or magazine is to be loaded the bolt 25 is withdrawn from the recess or keeper 23 and the carriage 21 shifted along the platform 15 to the position shown in Fig. 6, the bolt 25 then entering the recess or keeper 24 so as to lock the parts in position to enable the rods of stock *a* to be inserted in the direction of the arrows shown in Fig. 6. It will now be seen that the stock can be introduced to the magazine from the front end thereof, or in other words, from a position alongside of the multi-spindle machine itself, and without necessitating going to the farther or rear end of the magazine. After the rods have been introduced, the attendant simply withdraws the bolt 25 from the locking recess 24 and swings the magazine back to the position shown in Fig. 5, when the bolt 25 will reengage locking recess 23 although not so closely as to prevent the magazine from having sufficient lateral play to not interfere with the operation upon the rods if the latter should be slightly crooked.

The disks 30, 32 connected by the tubes 31 properly support the rods of stock, said disks being, however, supported so that they are readily rotatable step-by-step to permit the stock to follow the step-by-step rotative movement of the spindles 12 of the operating machine.

The ordinary magazine heretofore known sways from the floor up during the operation of the machine, but our improved magazine enables all of the necessary play to be taken up by the carriage 21 shifting

slightly laterally upon the platform without imparting any swaying or vibration to the machine.

We claim:—

1. A machine of the character described having a swinging rest or magazine for the stock to be acted upon by said machine, the end of said rest nearest the machine being laterally movable, and means for supporting said laterally movable end when swung aside.

2. A machine of the character described having a stock rest comprising a pair of disks and tubes connecting them, one of said disks having a pivotal support and the other disk having a support to permit it to be shifted laterally.

3. A machine of the character described having a swinging rest or magazine for the stock to be acted on by said machine, the end of said rest nearest the machine being laterally movable, and an elongated platform for supporting the laterally movable end.

4. A stock rest or magazine for machines of the character described having a pivotal support for one end and an elongated platform for supporting its other end, means being provided for locking the last-mentioned end in position relatively to the machine.

5. A stock rest or magazine for machines of the character described having a pivotal support for one end and an elongated platform for supporting its other end, means being provided for locking the last-mentioned end in position relatively to the machine, the locking means being constructed to permit lateral play of the front end of the stock rest or magazine.

6. A stock rest or magazine for a machine of the character described having a pivotal support for one end, an elongated platform for supporting its other end, and means for locking the last-mentioned end of the rest or magazine in either one of a plurality of positions.

7. A rotatable rest or magazine for machines of the character described, said rest having a plurality of stock supports, the rest as a whole having a pivotal support for one end, and a curved elongated platform for supporting its other end.

8. A machine of the character described having a laterally elongated platform supported by the frame of said machine, a carriage mounted to be shifted along said platform, a pivotal support at a distance from said platform, and a rotatable stock rest or magazine carried by said pivotal support and platform.

9. A machine of the character described having a laterally elongated platform supported by the frame of said machine, a car-

riage mounted to be shifted along said platform, a pivotal support at a distance from said platform, and a rotatable stock rest or magazine carried by said pivotal support
5 and platform, means being provided for locking the rest or magazine in either one of a plurality of positions.

In testimony whereof we have affixed our signatures, in presence of two witnesses.

WILLIAM VICTORY.

WILLIAM J. PARSONS.

Witnesses:

LIZZIE STRACHAN,

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