

E. TERRELL.

TYPE RECEIVING AND SUPPORTING DEVICE.

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940,087.

Patented Nov. 16, 1909.

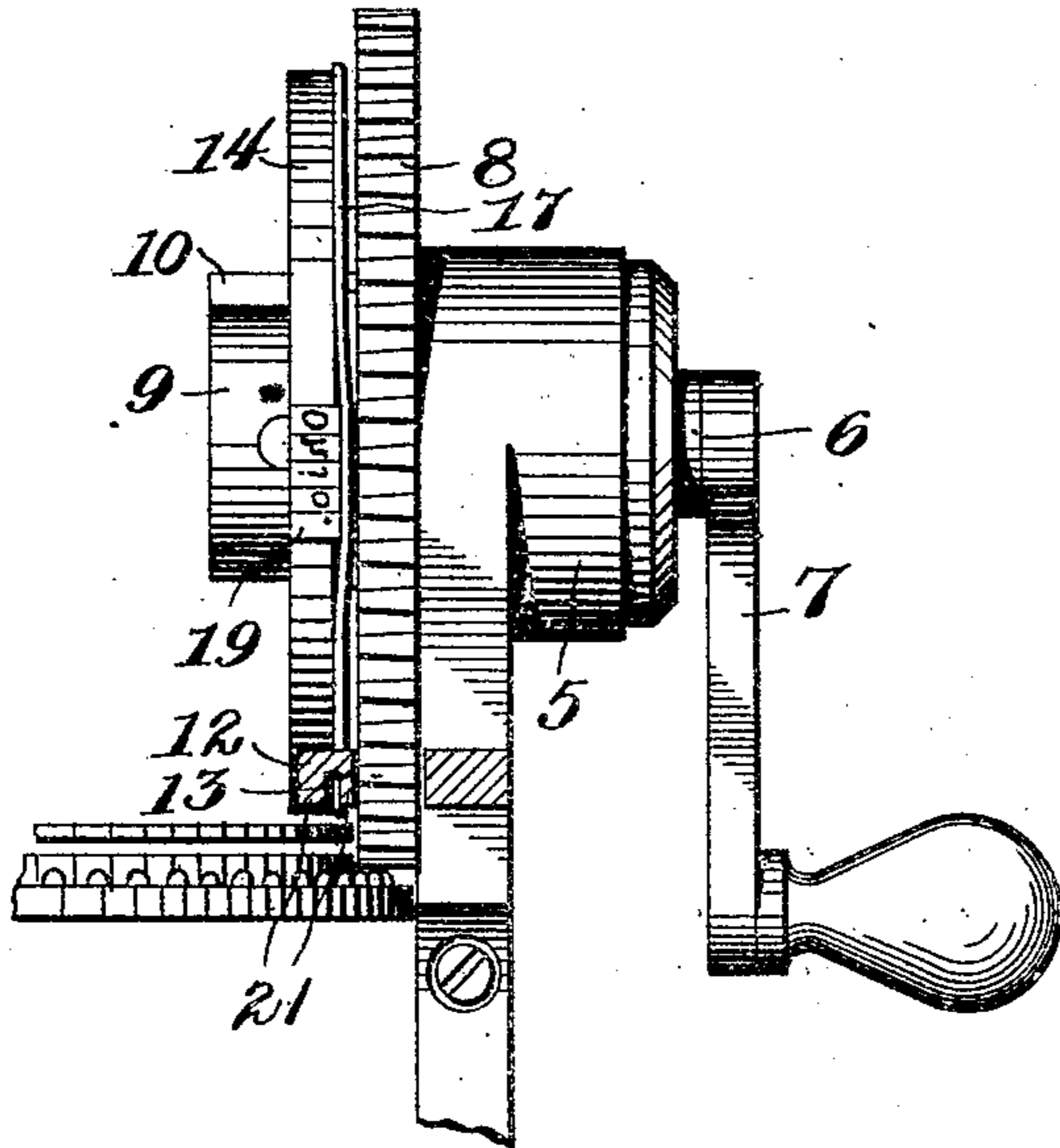


Fig. 1.

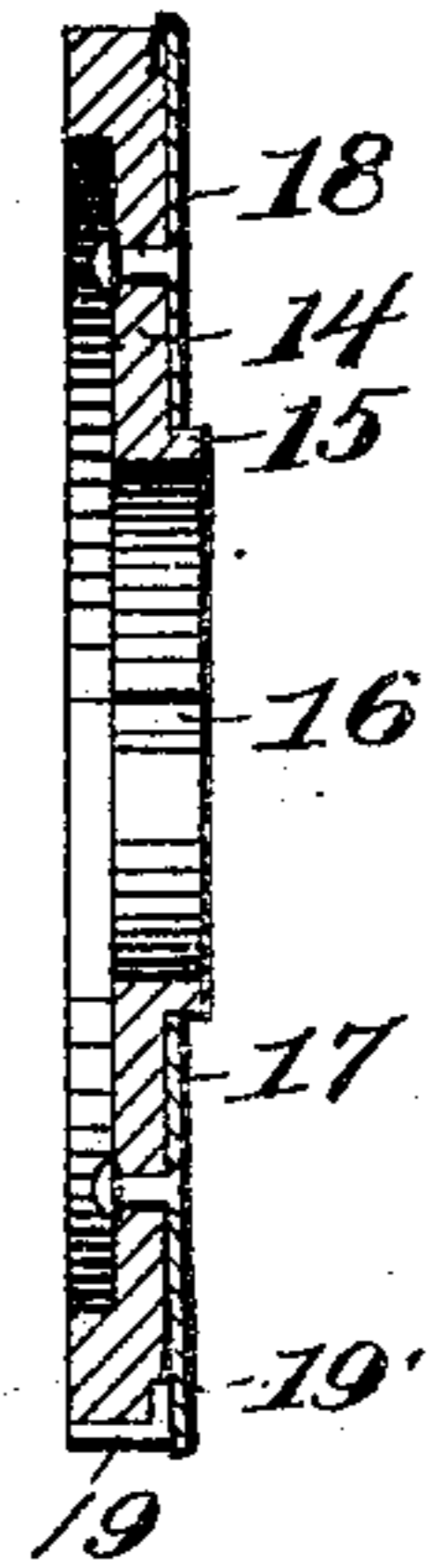


Fig. 3.

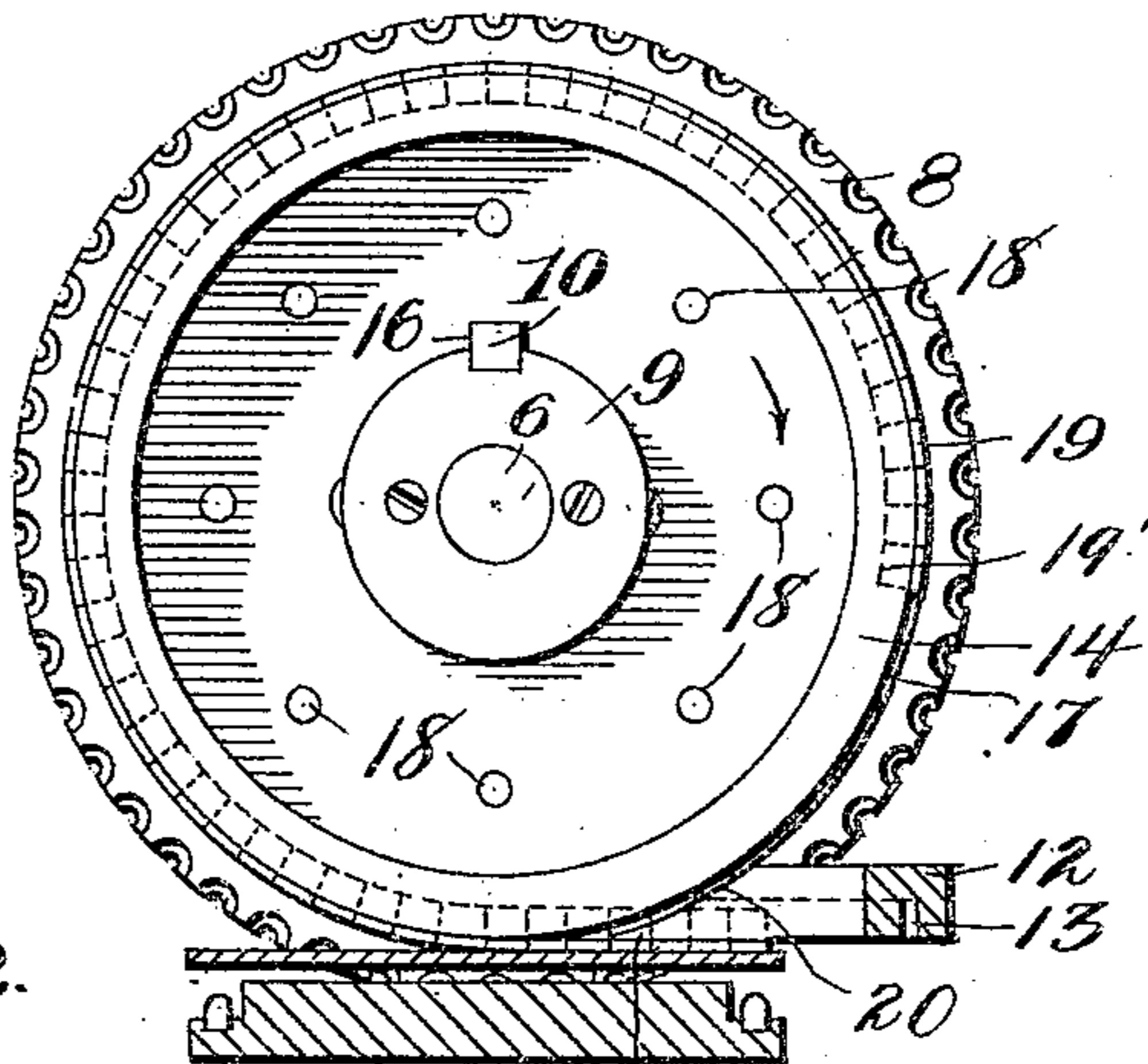


Fig. 2.

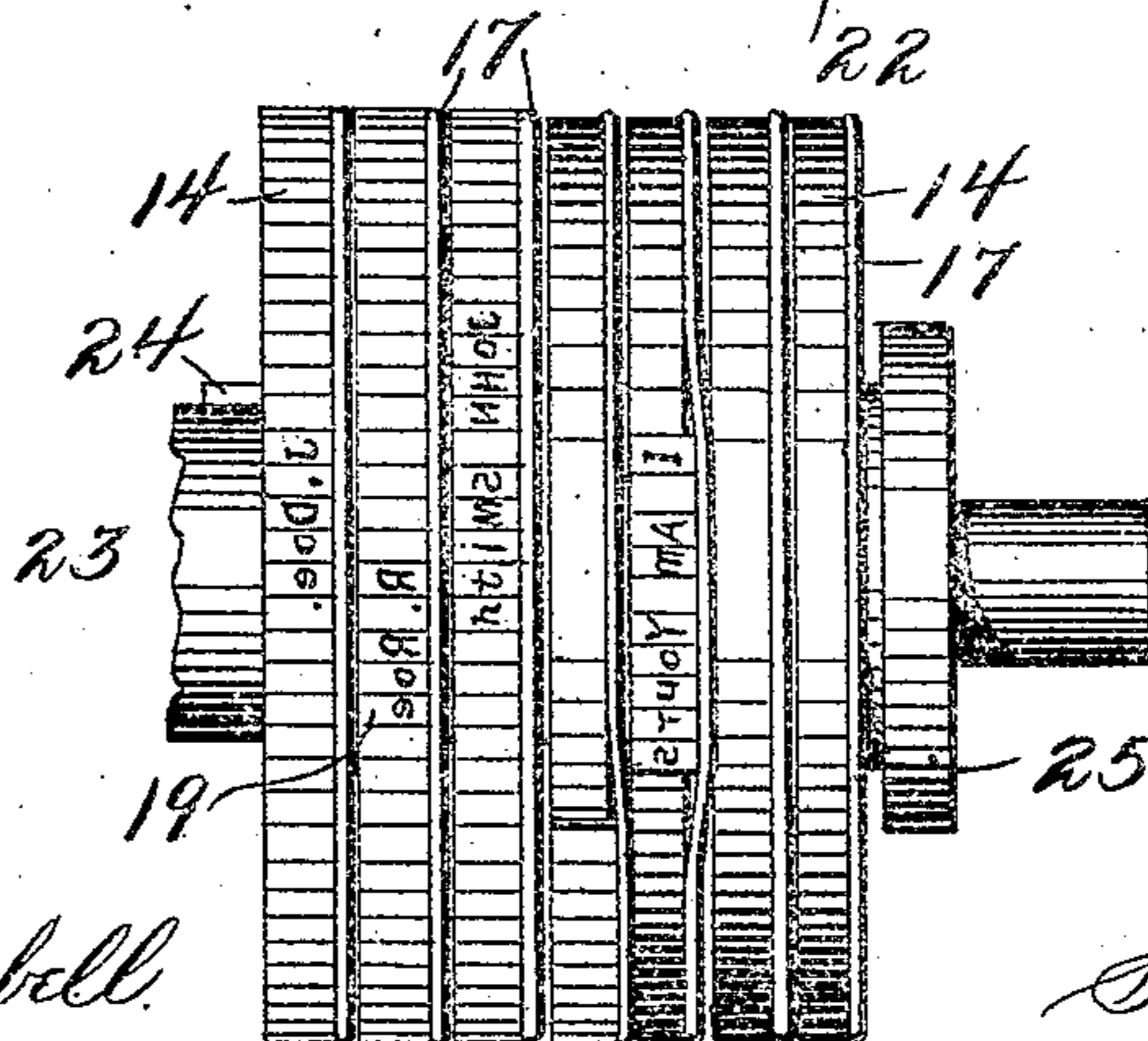


Fig. 4.

WITNESSES

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UNITED STATES PATENT OFFICE.

ELAH TERRELL, OF COLUMBUS, OHIO, ASSIGNOR TO EDWARD V. GAMBIER, TRUSTEE.

TYPE RECEIVING AND SUPPORTING DEVICE.

940,087.

Specification of Letters Patent.

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To all whom it may concern.

Be it known that I, ELAH TERRELL, citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Type Receiving and Supporting Devices, of which the following is a specification.

My invention relates to a type receiving and supporting device and has for its object the provision of improved means for receiving the type from an assembling machine and for retaining such type while the latter is being used for the purpose of printing.

The type receiving and supporting device forming the subject matter of the present invention is particularly designed to be used in conjunction with the type assembling machine set forth in my Patent No. 880,341, dated February 25, 1908, and has been illustrated in the accompanying drawings in connection with a portion of said assembling machine, in order that the method of using the device may be clearly brought out.

Further objects and advantages of the invention will be set forth in the detailed description which now follows.

In the accompanying drawing: Figure 1 is a view of a portion of a type assembling machine, with certain of the parts thereof in section and with my improved type receiving and supporting means in elevation, Fig. 2 is a view partly in section and partly in elevation of the parts shown in Fig. 1, Fig. 3 is a transverse vertical section of my improved type receiving and supporting device, and, Fig. 4 is a view in elevation of a plurality of these type receiving and supporting members arranged upon a supporting shaft ready for the operation of printing from the type carried thereby.

Like numerals designate corresponding parts in all of the figures of the drawing.

Referring to the drawing the numeral 5 designates a bearing in which is journaled a shaft 6 to which motion may be imparted by a handle 7. A gear wheel 8 which is mounted upon this shaft, is provided with an inwardly projecting hub or bushing 9 which carries a key 10. A table 12 is provided with a guide groove 13 which is adapted to conduct type to the type receiving and supporting means as will be presently described. This type receiving and supporting means comprises a disk 14 which is provided with a hub 15. The inner periphery of this hub is

grooved as at 16 to form a key-way which engages with the key 10 when the disk is slipped upon the hub 9. Secured to the face of the disk 14 is a comparatively thin metallic web 17. This web is secured to the disks by rivets 18 which are arranged at some distance from the outer edge of the disk and web, by virtue of which construction a certain resiliency is imparted to the disk and the outer portion of said disk is permitted to give sufficiently for the short portions 19' of L-shaped type 19 to enter between the disk 14 and web 17, said web serving to firmly hold the type in position, after they have once been forced into the position illustrated in Fig. 3. The terminal portion of the table 12 which lies adjacent the edge of the disk 14 when said disk is in position upon the hub 9, is preferably cut-away as at 20 upon the arc of a circle struck from the center of the hub 9. It will be readily understood that the cutting away of this portion of the table 12 leaves a pair of parallel members 21, which gradually taper to a point, as at 22.

The operation of the device is as follows: A disk having been placed in position upon the hub 9 with the key 10 engaging the key-way 16 thereof, motion is imparted to said disk through the handle 7 and shaft 6 in the direction of the arrow, as shown in Fig. 2. The type which are being forced through the groove 13, as illustrated and described in Patent No. 880,341, dated February 25, 1908, above referred to, pass out of the end of said guide groove at the cut away portion 20 of the table 12 between the members 21. The short portions of the type are held between the members 21, and as the disk 14 revolves the type are forced between the disk 24 and the web 17, with their longer portions lying upon the outer periphery of the disk. It will be seen that the shorter portions 19' of the type 19 start to engage the disk 14 and the web 17 before the type are entirely free of the members 21.

As shown in Fig. 2, a continuous line of type is being forced into the cut away portion 20. The type, as shown in Fig. 2, are separated into words by means of blank type that are inserted in their regular order similar to the lettered type. Where only a few words appear on the periphery of any disk suitable stops (not shown) are provided, as illustrated and described in the application above referred to, for spacing the words

without inserting blank type, whereby the words instead of being fed in a continuous line are fed successively, the disk 14 continuing to revolve, and as the words are forced successively into the cut away portion 20 they are picked up in the same manner as before described. When it is desired to use these disks for printing, they are placed upon a shaft 23 which is provided with a key 24. The key-ways 16 of the disks engage this key 24 whereby said disks are not only held against rotation, but are caused to come into proper alinement with each other. It is apparent that the bodily rotation of the shaft 23 will impart a like bodily rotation to the disks, to cause said disks to imprint the characters carried thereby upon any surface with which they may be placed in contact after the manner of a printing press cylinder. A head 25 carried by the shaft 23 forms a stop for the disks.

From the foregoing description it will be seen that the disk herein shown and described is adapted to pick up type during its rotation and to retain such type in position for printing, but while the elements shown and described are well adapted to serve the purposes for which they are intended, it is to be understood that the invention is not limited to the precise construction set forth, but includes within its purview such changes as may be made within the scope of the appended claims.

What I claim, is:

1. A disk and a spring web secured to one side thereof but free near the periphery of the disk and which does not extend over the peripheral face of the disk, said disk and spring arranged to receive between them one leg of each of one or more L-shaped type, the

other leg or legs of such type lying against the peripheral face of the disk.

2. A disk and a spring web secured to one side thereof but free near the periphery of the disk, said web being of greater diameter than said disk but does not extend over the peripheral face of the disk, said disk and spring web arranged to receive between them one leg of each of one or more L-shaped type, the other leg or legs of such type lying against the peripheral face of the disk.

3. A disk and a spring web secured to one side thereof but free near the periphery of the disk and which does not extend over the peripheral face of the disk, said disk and spring arranged to receive between them one leg of each of one or more L-shaped type, the other leg or legs of such type lying against the peripheral face of the disk, a shaft and means for alining a plurality of said disks on said shaft.

4. A disk and a spring web secured to one side thereof but free near the periphery of the disk, said web being of greater diameter than said disk but does not extend over the peripheral face of the disk, said disk and spring web arranged to receive between them one leg of each of one or more L-shaped type, the other leg or legs of such type lying against the peripheral face of the disk, a shaft and means for alining a plurality of said disks on said shaft.

In testimony whereof I affix my signature in presence of two witnesses.

ELAH TERRELL.

Witnesses:

FRANK G. CAMPBELL,
A. L. PHELPS.