

No. 699,402.

Patented May 6, 1902.

A. A. LOW & J. BREAKY.
TYPE DISTRIBUTING APPARATUS.

(Application filed Aug. 26, 1901.)

(No Model.)

3 Sheets—Sheet 1.

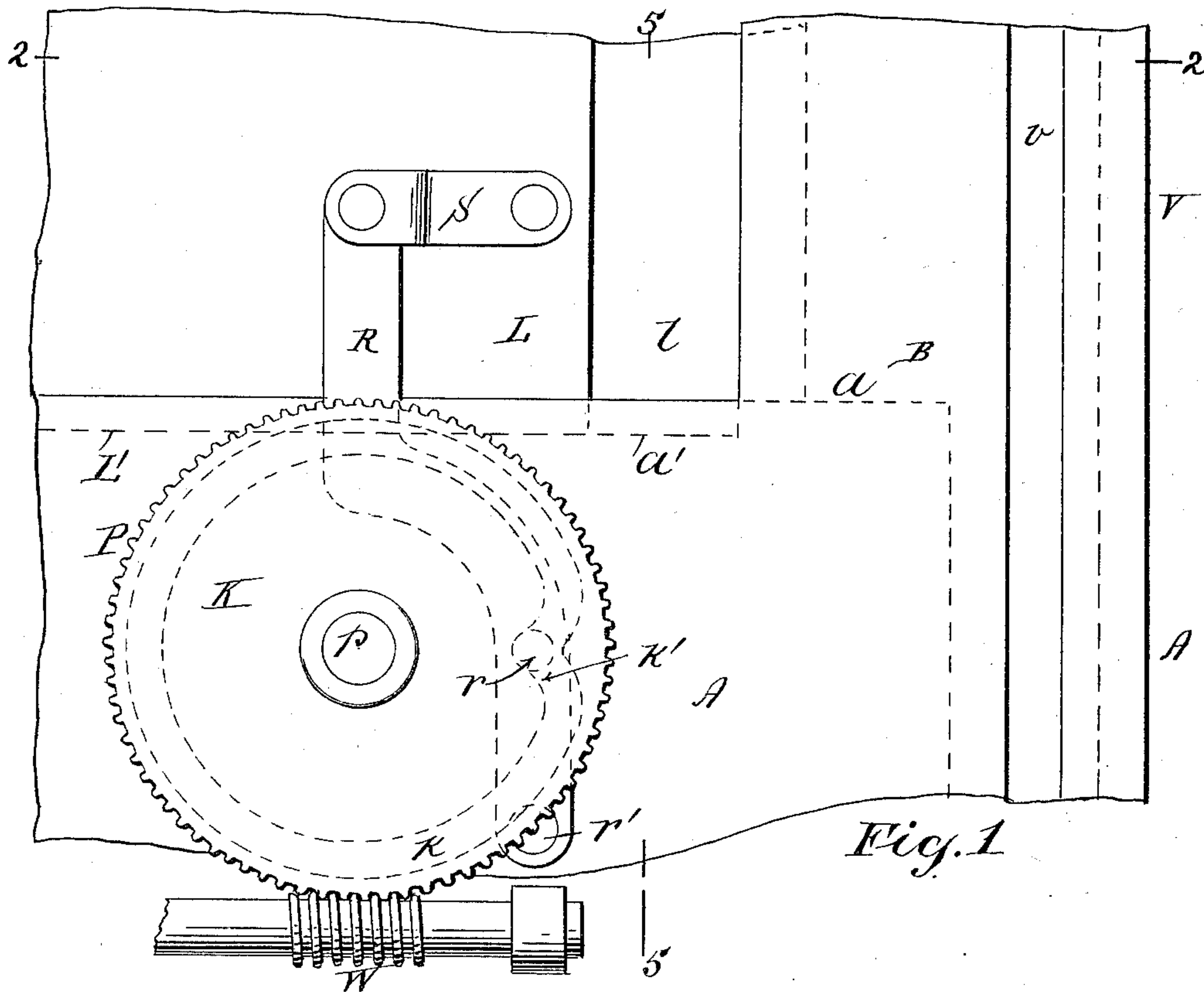


Fig. 1

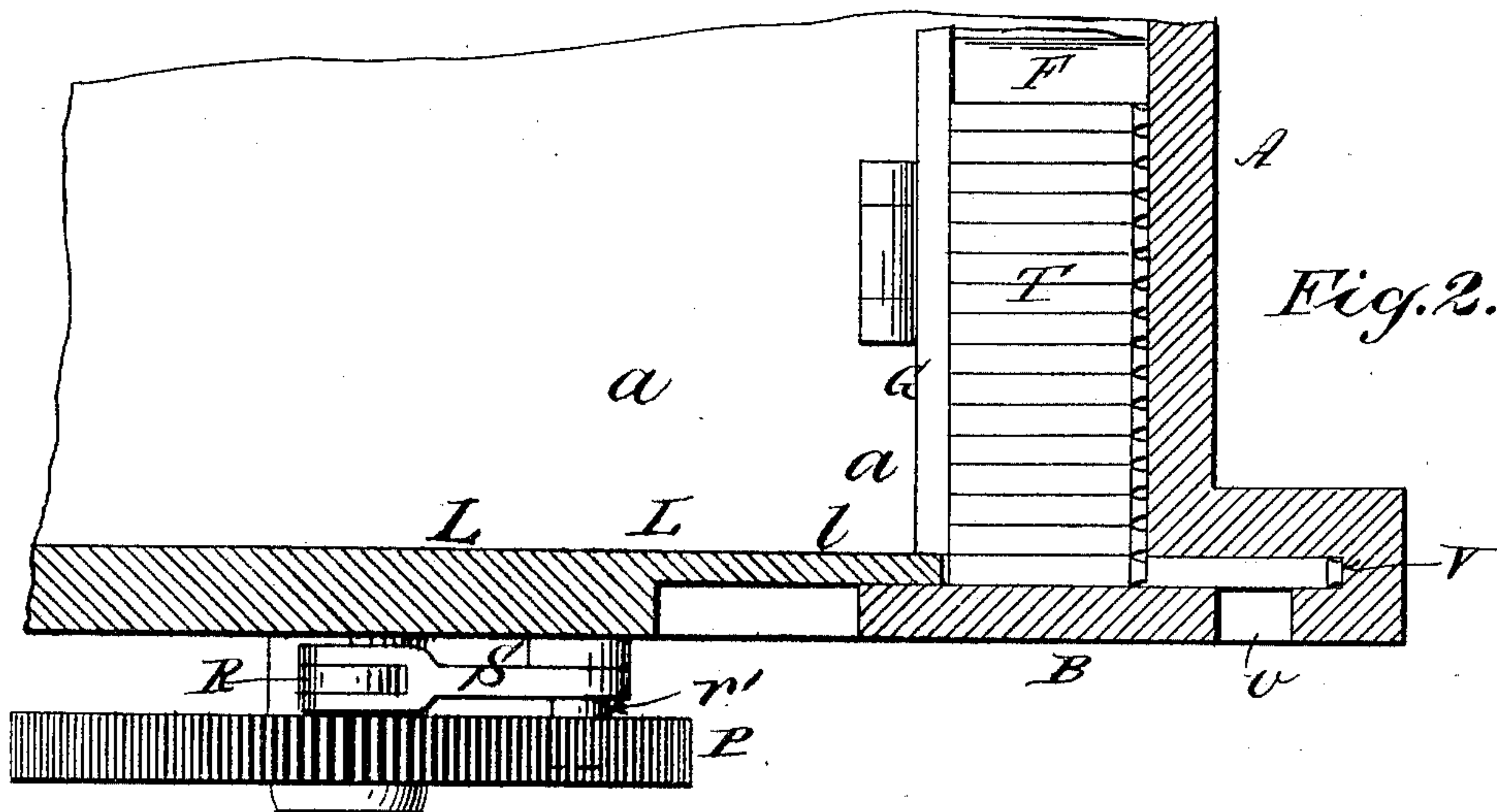


Fig. 2.

Witnesses:
D. W. Gardner.
John K. Kinn.

Inventors:
Abbot Augustus Low
James Breaky
By their Attorney
Geo. W. Mait

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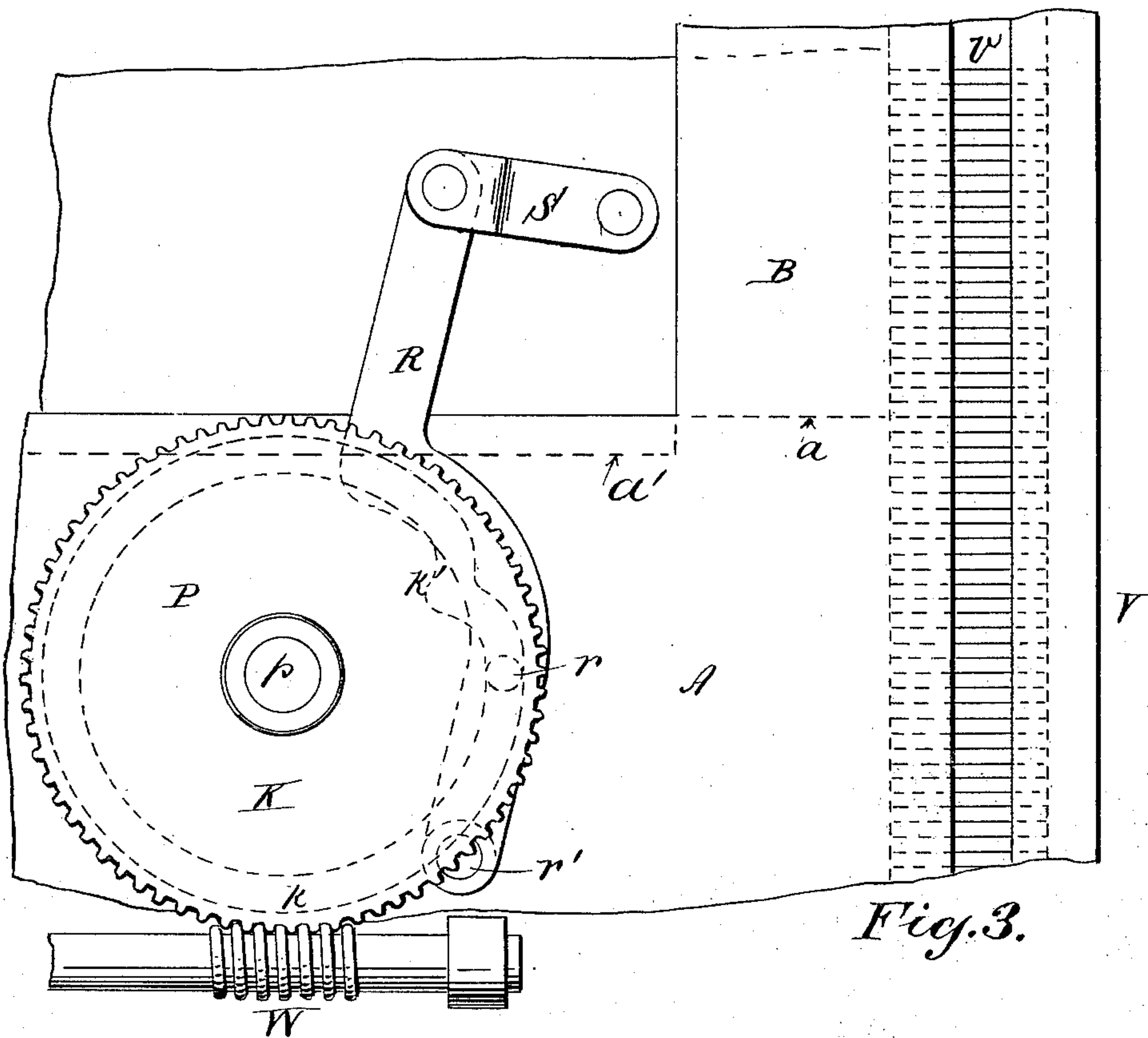


Fig. 3.

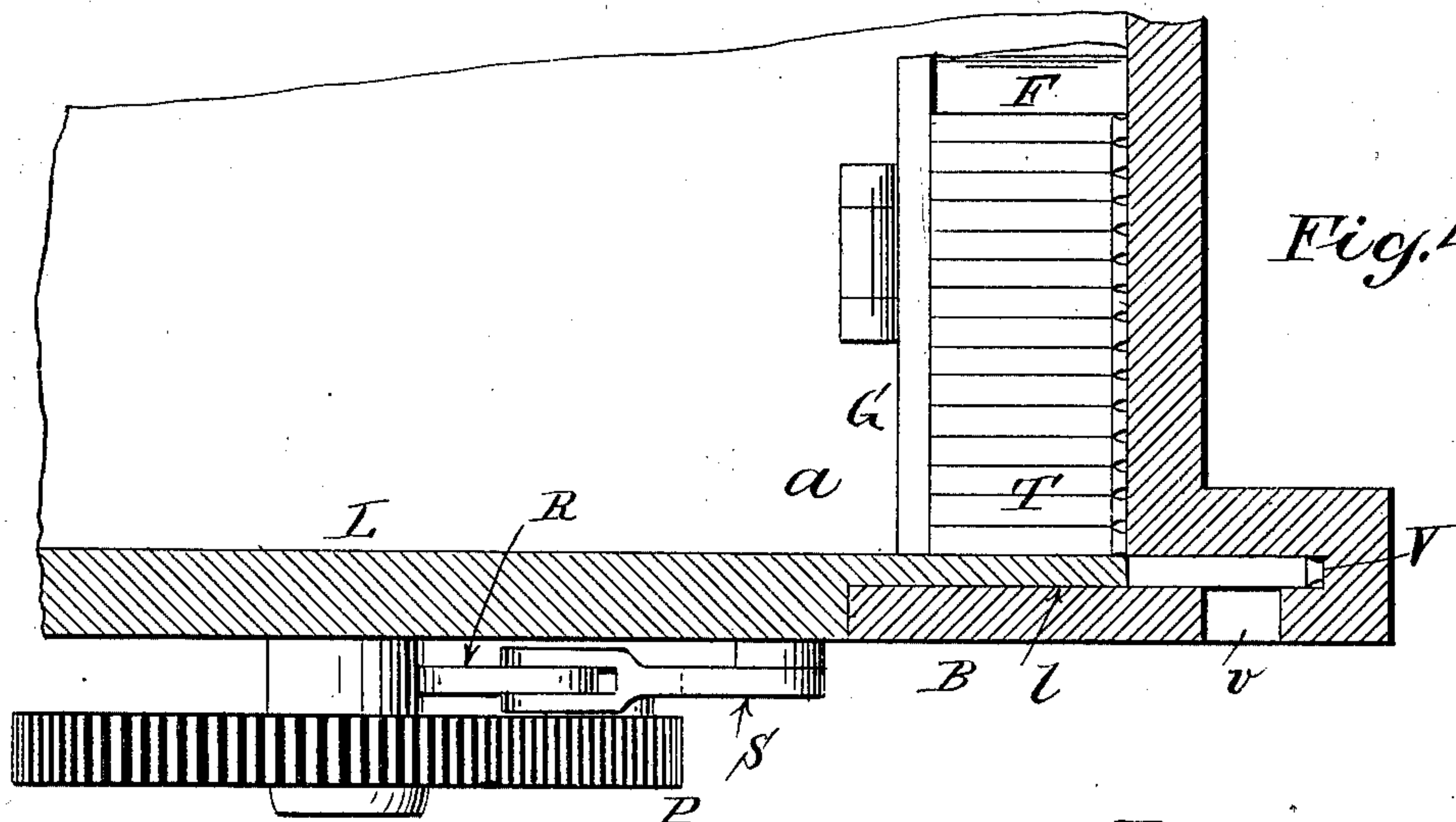


Fig. 4.

Witnesses:
R. W. Anderson.
John Kinn.

Inventors:
Abbot Augustus Low
James Breaky
By their attorney
Geo. W. Mott

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Fig. 5.

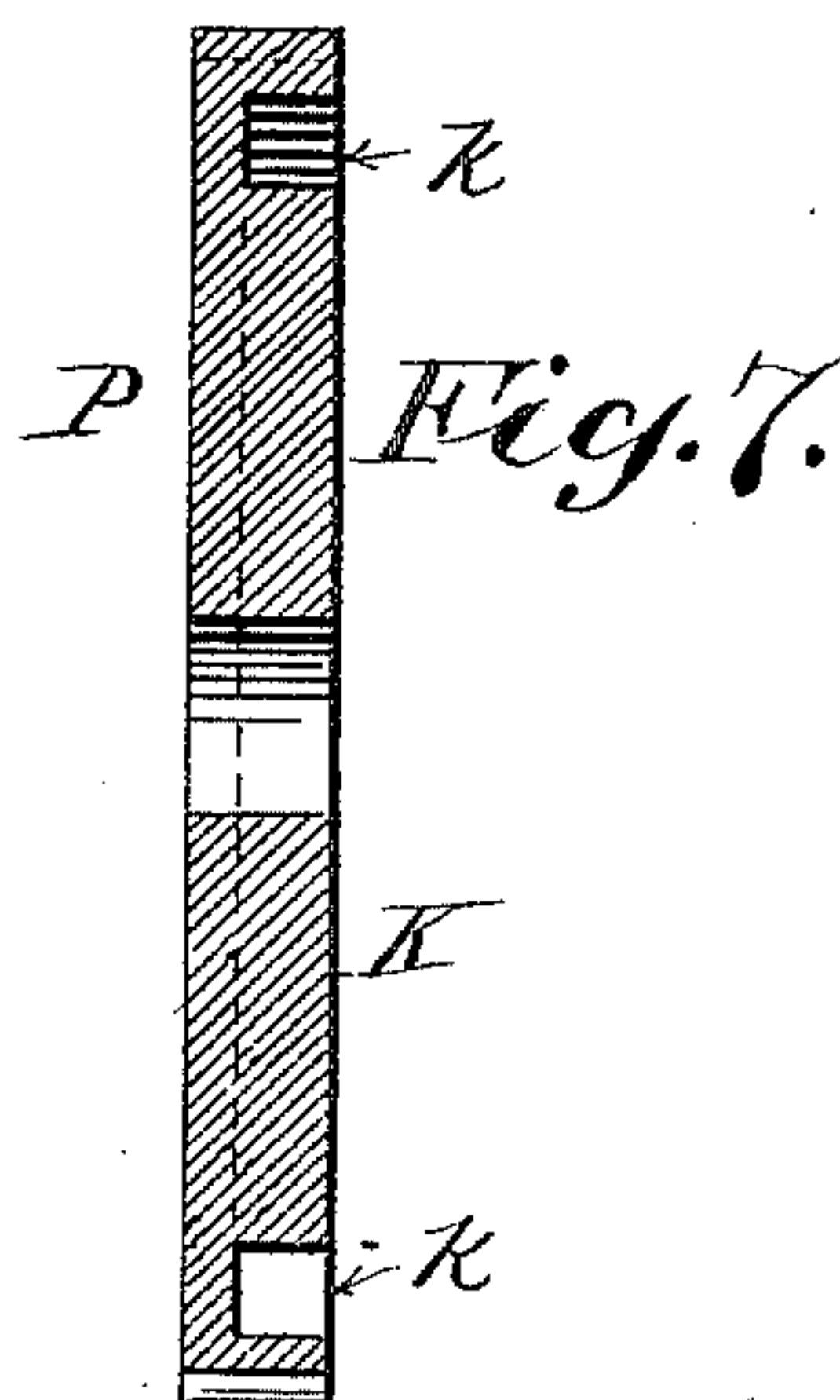
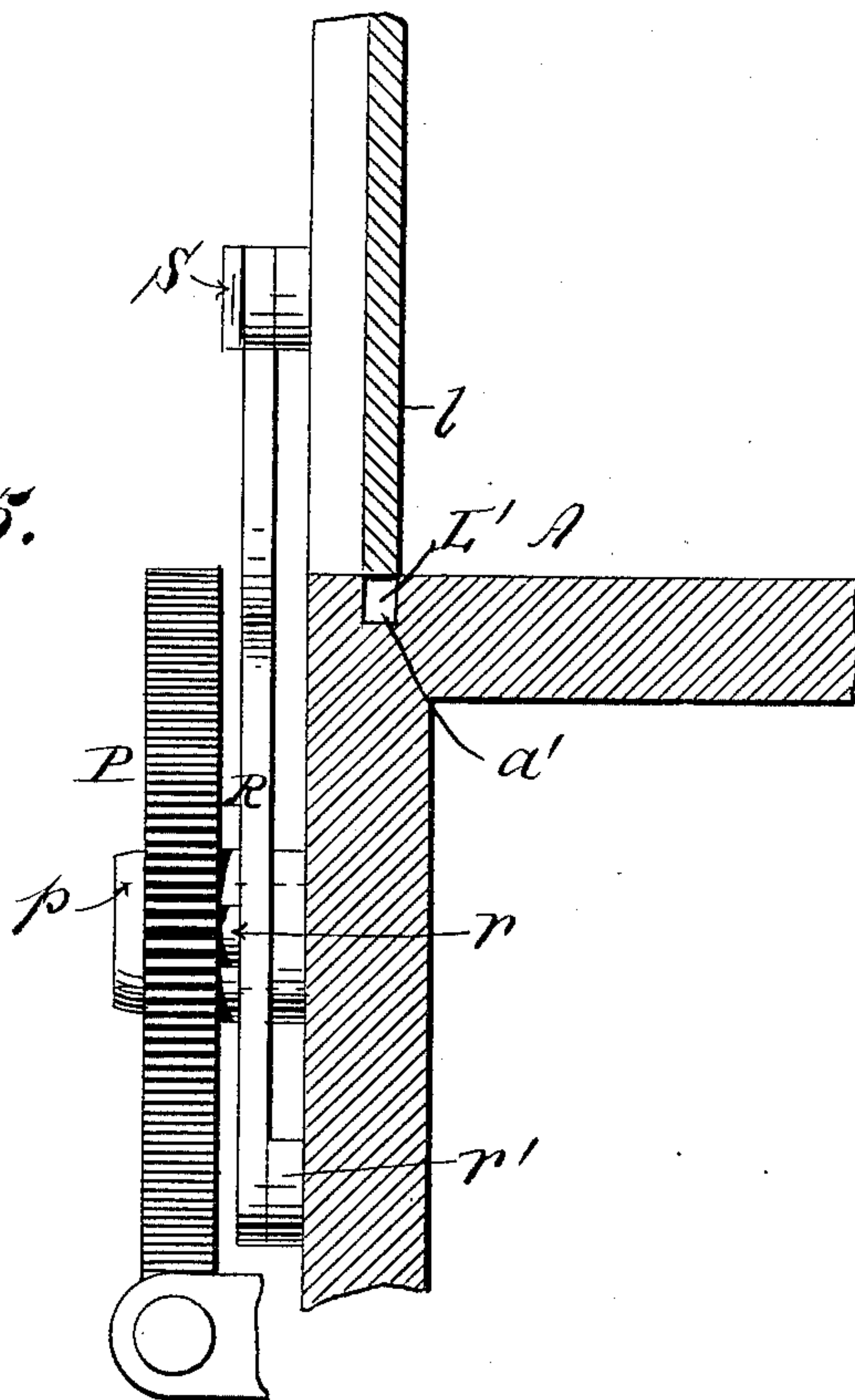


Fig. 7.

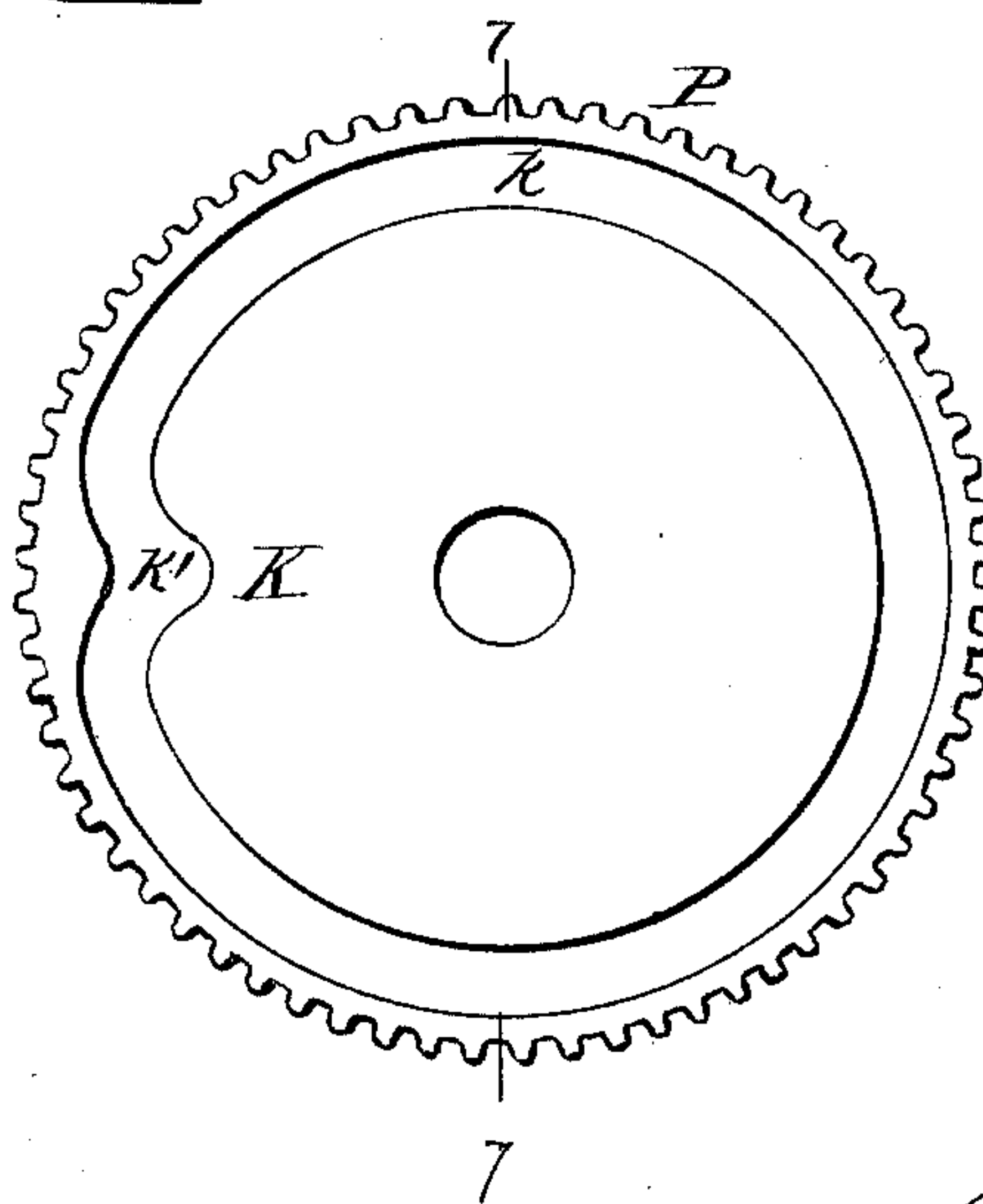


Fig. 6.

Witnesses:
Wm. Gardner.
John Riven.

Inventors:
Abbot Augustus Low
James Breaker
By their Attorney
Rev. Wm. M. Malt

UNITED STATES PATENT OFFICE.

ABBOT AUGUSTUS LOW AND JAMES BREAKEY, OF BROOKLYN, NEW YORK,
ASSIGNORS TO ALDEN TYPE MACHINE COMPANY, OF NEW YORK, N. Y.

TYPE-DISTRIBUTING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 699,402, dated May 6, 1902.

Application filed August 26, 1901. Serial No. 73,269. (No model.)

To all whom it may concern:

Be it known that we, ABBOT AUGUSTUS LOW and JAMES BREAKEY, citizens of the United States, residing in the city of New York, borough of Brooklyn, county of Kings, and State of New York, have invented certain new and useful Improvements in Type-Distributing Apparatus, of which the following is a specification sufficient to enable others skilled in the art to which the invention appertains to make and use the same.

Our improvements relate to the class of type-distributing apparatus known as the "Alden;" and it consists in the special construction and arrangement of parts, hereinafter described and claimed specifically, whereby the lines of a page of type are successively forwarded into the distributor-channel to be conducted to the feelers and transferring devices.

In the accompanying drawings, Figure 1 is an elevation of a portion of a type-distributing machine adjoining the channel into which the types are introduced for distribution, including our improved mechanism for forwarding the successive lines of type into said channel, the parts being retracted. Fig. 2 is a horizontal section upon plane of line 2 2, Fig. 1, showing also types in position. Fig. 3 is a view similar to Fig. 1, showing the pusher thrown forward. Fig. 4 is a view similar to Fig. 2 with the parts in the position shown in Fig. 3. Fig. 5 is a section upon plane of line 5 5, Fig. 1; Fig. 6, a view of the inner side of the cam-wheel; Fig. 7, a section upon plane of line 7 7, Fig. 6.

In the drawings, A represents the stationary framework of the distributor, in which is formed the vertical type-channel V, into which the types are introduced and by which they are conducted to the usual type feeling and distributing devices. The framework A is formed with the vertical slot *v*, so as to give access to and expose the types within the channel V.

The types to be fed to the channel V are supported either directly upon the shelf *a* of the frame A or upon the galley G, pivotally

connected to said shelf *a*, as shown in Figs. 2 and 4 of the drawings. Adjoining the vertical slot *v* is the abutment B, against which the types T in the galley G are advanced by the follower F, actuated by any well-known mechanical expedient. The lines of type as they rest successively against the abutment B are forwarded automatically and periodically into the distributor-channel V by the line-forwarder L. This line-forwarder L is formed with the vertical tongue *l* and is supported upon the frame A by any convenient means. In the drawings a tongue *l'* is formed on the under side of the line-forwarder L and fits into the horizontal groove *a'*, by which means the alinement of the forwarder L is maintained.

An intermittent reciprocatory movement is imparted to the line-forwarder L by means of the cam K, acting upon the stud *r* of the rocker-arm R, which is pivotally connected to the frame A at *r'*, and the upper end of which rocker is pivotally connected with the line-forwarder by means of a link S. The groove *k* of the cam K is concentric for the greater portion of its extent, there being only one eccentric portion *k'*, by which the stud *r* is thrown back to rock the lever R and retract the line-forwarder L into the position shown in Figs. 1 and 2, so as to admit of the advance of a fresh line of type against the abutment B, the return of the stud *r* to the concentric portion of the groove acting to throw the line-pusher into its normal position and to thereby transfer the line of type into the distributor-channel V.

The cam-groove *k* is formed directly in the inner face of the cog wheel or pinion P, mounted and rotating on the stud *p*, projecting from the face of the frame A. The cog-wheel P is rotated continuously by a worm W.

What we claim as our invention, and desire to secure by Letters Patent, is—

1. In a device for forwarding lines of type, the combination of the vertical type-channel V, the abutment B, the reciprocatory line-forwarder L, the rotatable wheel P, the driving-worm W, the cam K, the rocker R and

the link S, the whole arranged and operating substantially in the manner and for the purpose set forth.

2. In a device for forwarding lines of type,
5 the combination of the vertical distributor-channel V, formed with the vertical slot *v*, the abutment B, the rotatable wheel P, the driving-worm W, the cam K, the rocker-arm R, the link S, and the reciprocatory line-for-

warder L, the whole arranged and operating substantially in the manner and for the purpose set forth.

ABBOT AUGUSTUS LOW.
JAMES BREAKKEY.

Witnesses:

D. W. GARDNER,
JOHN KIRN.