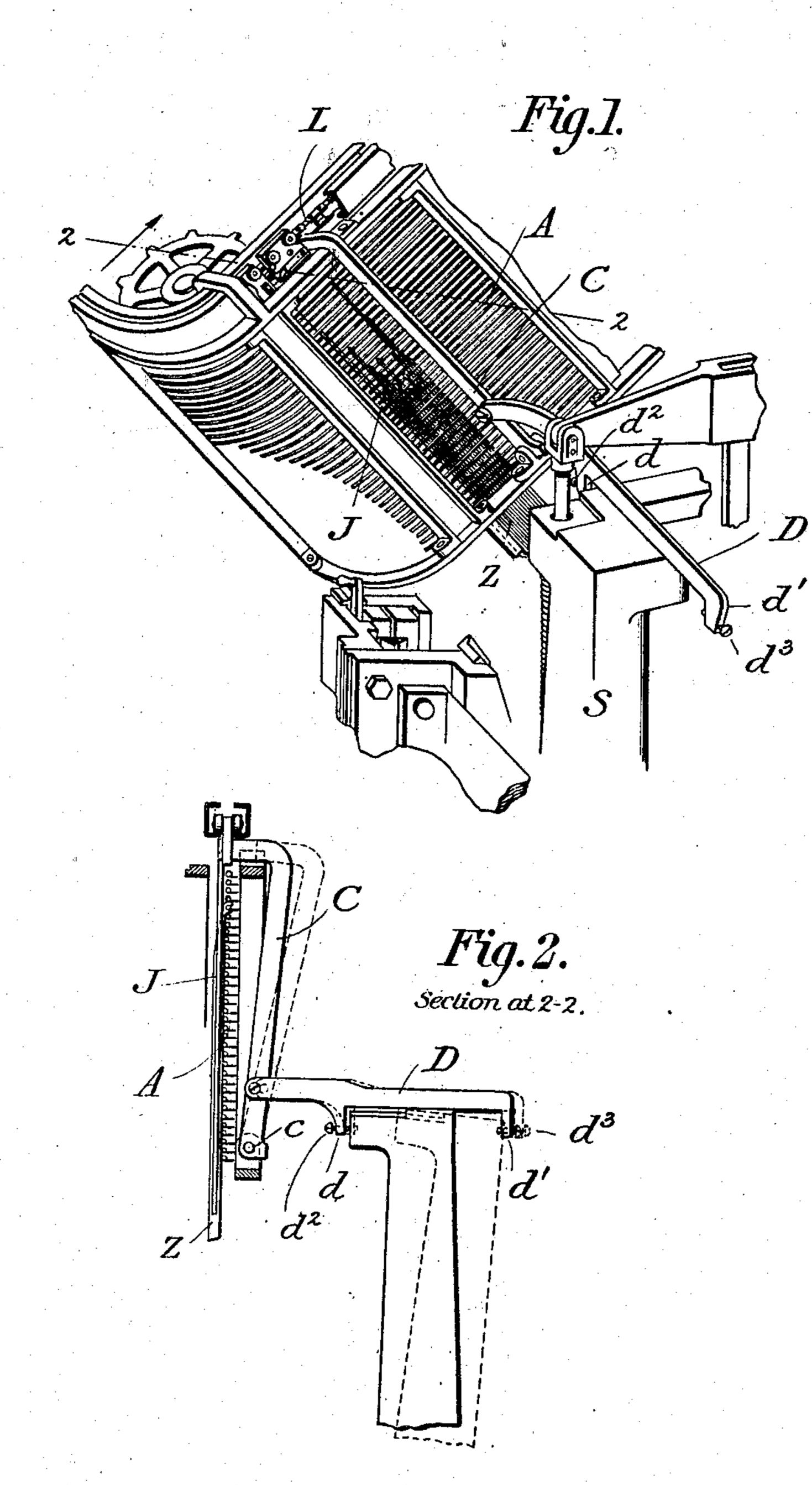
J. R. ROGERS. LINE CASTING MACHINE. APPLICATION FILED DEC. 4, 1908.

924,001.

Patented June 8, 1909.



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JOHN R. ROGERS, OF BROOKLYN, NEW YORK, ASSIGNOR TO MERGENTHALER LINOTYPE COMPANY, A CORPORATION OF NEW YORK.

LINE-CASTING MACHINE.

No. 924,001.

Specification of Letters Patent.

Patented June 8, 1909.

Application filed December 4, 1908. Serial No. 465,929.

To all whom it may concern:

Be it known that I, John R. Rogers, of borough of Brooklyn, county of Kings, and State of New York, have invented a new and useful Improvement in Line-Casting Machines, of which the following is a specification.

This invention is intended more particularly as an improvement on the line casting machine represented in Letters Patent of the United States to J. R. Rogers #679481.

In machines of this class, a composed line of matrices, suspended from parallel guide wires, is pushed forward by a finger from the composing position to the casting position in front of the mold, all the parts being driven through a friction clutch which slips in the event of its meeting excessive resistance.

The carrying finger is attached to an endless power driven chain, and in practice it occasionally happens that the momentum of the parts is such that they carry the finger and the matrix line beyond the proper position at the casting point.

The object of the present invention is to effect a positive stoppage of the line at the proper point, and to this end it consists in a mechanically actuated stop, arranged to arrest the line carrying finger at the proper point.

With the exception of the parts hereinafter described, the machine may be in all respects of the ordinary construction.

Figure 1 is a perspective view showing a composed line of matrices at the casting position, together with the adjacent parts of the machine, having my improvement embodied therein. Fig. 2 is a cross section 40 on the line 2—2, Fig. 1.

Referring to the drawings, A represents the inclined guide wires from which the matrices Z are suspended.

J represents the finger by which the composed line of matrices is carried forward from
the composing position to the casting position, as shown in Fig. 1. This finger is attached to and depends from an endless carrying chain L, suitably guided and, driven by
nechanism so arranged that when the finger
has advanced the matrices to the casting
position the driving devices are automatically disengaged, so that the chain and
finger may stop.

All of the foregoing parts may be constructed and arranged to operate as in Patent 679,481, the parts indicated by like letters corresponding to those herein; the connection of the finger with the chain being preferably such as shown in Letters Patent 60 779,969.

In practice the momentum of the carrying chain, the finger, and the matrix line is such that the line is occasionally carried beyond the proper easting position, and it is to over- 65 come this difficulty that my invention is intended.

S represents a rigid arm on the top of and forming a part of the movable metal pot, which swings, as usual, toward and from the 70 matrices and against the intervening mold, the mold being omitted from the present drawings in order to expose the other parts to view.

In applying my improvement, I provide 75 an automatically actuated stop, by which the advance of the chain and carrying finger J is arrested as soon as the finger has advanced the line of matrices Z to the casting position. This stop may be made in various 80 forms, and operated from any suitable moving part of the machine, but I recommend the arrangement shown in the drawing in which C represents a stopping finger pivoted at c to the top frame of the machine and 85 bent laterally at the upper end, that it may be projected in front of the block which connects the finger J with the carrying chain L in the manner indicated in Figs. 1 and 2, so that it will positively arrest the chain and 90 finger and prevent them from carrying the matrices beyond the proper position. The finger C is pivoted to and actuated by a horizontal bar D, resting on top of the pot arm S, and provided with downwardly projecting 95 shoulders, d and d', so located that as the pot swings to and fro it will move the bar 1) and actuate the stop C. The parts are so proportioned and arranged that the backward movement of the pot withdraws the 100 stop C in time to permit the proper advance of the chain and finger after the casting operation, when the matrix line is to be advanced rearward for distribution. The stop is thrown forward to an operative position 105 before the line reaches the casting position, and in time to arrest the chain and finger before the matrix line is overcarried.

The bar D may be provided with screws, | bination with a movable stop to positively d^2 and d^3 , to contact with the pot. The ad- arrest the finger at the casting point. justment of these screws will permit the 5 great nicety.

I claim is:

1. In a machine of the class described, in location in the proper casting position. combination, pendent matrices, and guides ing position, means for advancing the line to | vance of the finger, movable pot S, and the casting position, and automatic means for positively arresting the advancing lines stop. and preventing the line from being overcar-15 ried through momentum.

2. In a machine of the class described, a chain and finger for advancing the matrix line to the casting position, in combination with an automatically actuated stop to ar-

position.

3. In a machine of the class described, the guides, matrices suspended therefrom, and the power driven finger to advance the 25 matrix line to the casting position, in com-

4. In a line casting machine, a movable movement of the stop C to be controlled with | pot, a mold, and means for presenting a composed line of matrices to the mold, in combi- 30 Having thus described my invention, what ination with means controlled by the pot to control the travel of the line and insure its

5. In combination, the matrix carrying 10 whereon they travel to and beyond the cast- | finger and chain, and stop C to limit the ad- 35 means through which the pot controls the

6. In a machine of the class described, the matrix carrying finger, the swinging pot, and 40 means controlled by the pot to arrest and release the finger.

In testimony whereof I hereunto set my hand this twenty seventh day of November, 20 rest the finger when the line is in the casting | 1908, in the presence of two attesting wit- 45 nesses.

JOHN R. ROGERS.

Witnesses:

ROBERT G. CLARK, LUCY E. SMITH.