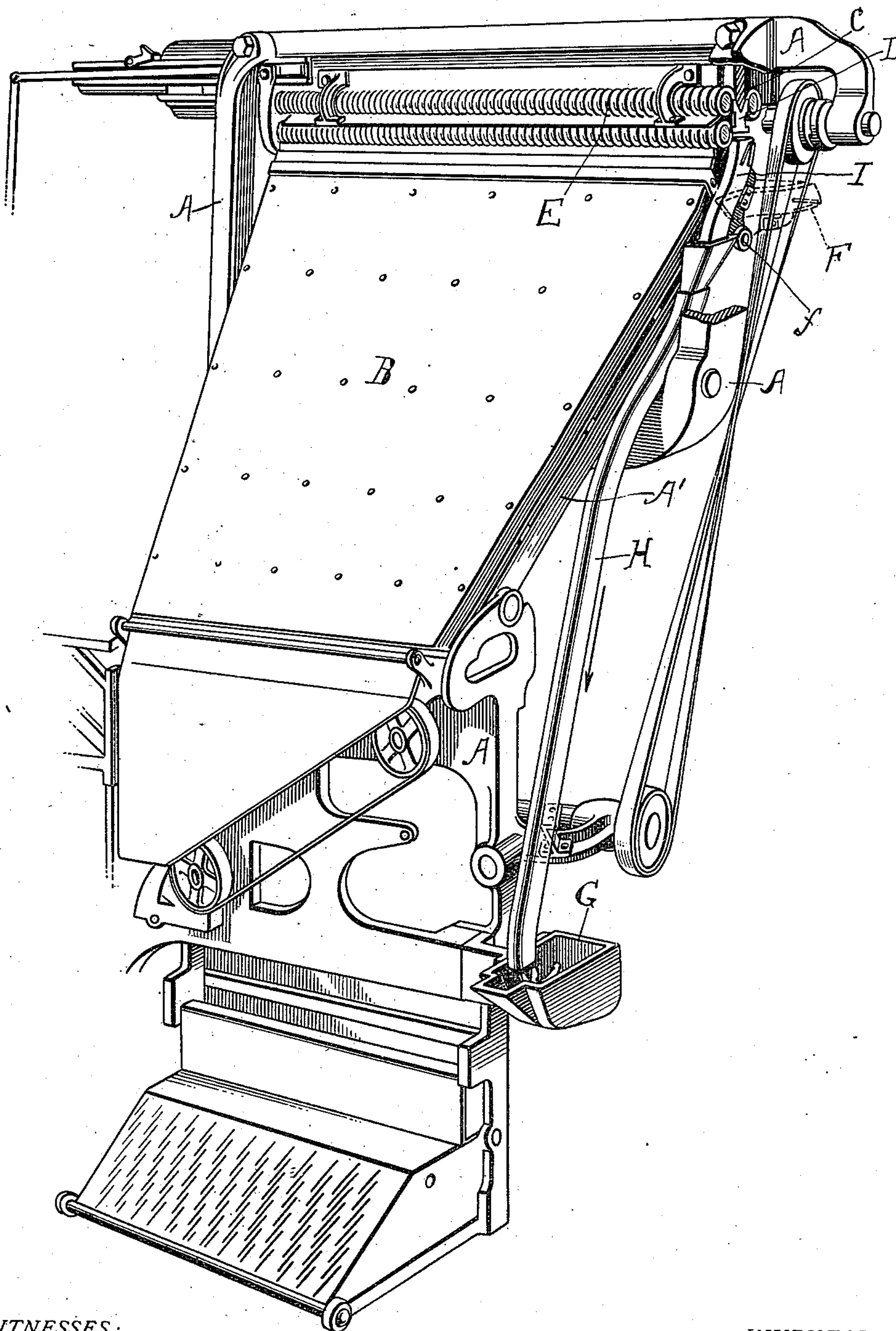


D. S. KENNEDY.  
 LINE CASTING MACHINE.  
 APPLICATION FILED NOV. 19, 1910.

989,908.

Patented Apr. 18, 1911.



WITNESSES:  
*Geo. P. Kingsbury*  
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 ATTORNEY.



# UNITED STATES PATENT OFFICE.

DAVID S. KENNEDY, OF BROOKLYN, NEW YORK, ASSIGNOR TO MERGENTHALER LINO-  
TYPE COMPANY, A CORPORATION OF NEW YORK.

## LINE-CASTING MACHINE.

989,908.

Specification of Letters Patent.

Patented Apr. 18, 1911.

Application filed November 19, 1910. Serial No. 593,170.

*To all whom it may concern:*

Be it known that I, DAVID S. KENNEDY, of the 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.

My invention relates to line casting machines of the well known Mergenthaler type, in which circulating matrices are assembled temporarily in line, the matrix line presented to a mold to form type characters on a slug cast therein, and thereafter delivered to a distributing mechanism, which returns the individual matrices, through a curved throat or entrance, to the upper end of an inclined magazine. In this class of machines it is customary to use, in addition to the matrices carried in the magazine, pi matrices representing extra or sorts characters not frequently required. These matrices are generally arranged to traverse the entire length of the distributor for delivery outside of the magazine. My invention has reference to means for thus delivering the pi matrices from the distributor into a pi or sorts box within reach of the operator.

To this end, it consists in a tube or conductor arranged to receive the matrices from the distributor, its lower portion being fixed, and its upper portion being attached to the magazine throat or entrance, which is hinged as usual, so that when the throat is swung backward and downward for the purpose of gaining access to the upper end of the magazine, and to the distributor, the attached end of the conducting tube will swing with it.

In the drawings, the figure is a perspective view of the upper portion of a Mergenthaler machine with my improvement applied thereto.

With the exception of the parts specifically described the machine may be of any ordinary or approved construction.

Referring to the drawings, A represents a portion of the mainframe, B the inclined magazine mounted thereon, C an overlying distributor bar longitudinally toothed, as usual, to engage the toothed ends of the matrices D, which are carried along the same by screws E, the arrangement being such that the matrices are released over the proper channels of the magazine, into which they descend by gravity.

F is the vertically curved throat or entrance, hinged to the upper end of the magazine supporting frame so as to form an upward continuance thereof, its upper end being in position to receive the matrices falling from the distributor.

So far as described, the parts are of the ordinary construction, and are familiar to all persons skilled in the art.

In carrying my invention into effect I provide on the mainframe, in convenient reach of the operator, a box or receptacle G, to receive pi matrices. Above this box I secure to the frame a tube H, having its lower end arranged to discharge into the box, and its upper end located at one side of the magazine, near the top of the latter. At the side of the swinging throat or entrance F, I secure a short tube, I, so shaped and located that it will receive the pi matrices from the distributor and deliver them into the upper end of the tube H.

It will be observed that the tubes H and I form in effect a continuous conductor to deliver pi matrices from the distributor to the receptacle G. When the throat or entrance F is swung downward in the ordinary manner, to give access to the upper end of the magazine, the tube I is carried with it, as indicated in dotted lines. It is to be noted that the tubes H and I are supported independently of the magazine B, which may be removed from the machine either at the front or rear, according to present practice, without disturbing the pi tubes. In the present instance the throat F is hinged at its upper end to a base frame A', which forms a permanent part of the mainframe, and gives direct support to the magazine.

While I prefer to construct and arrange the pi conductor in the form and manner shown, it is to be understood that the details may be variously modified, provided only that the upper end of the conductor is mounted to swing away from its operative position.

It will be observed that the swinging movement at the upper end of the conductor permits of access being had to its interior, and to the upper end of the tube H, so that lodged matrices or other obstructions may be removed.

Having described my invention what I claim is:—

1. In a machine of the class described, having a hinged magazine throat, a pi con-



ductor having its upper end attached to and movable with said throat.

2. In a machine of the class described, the combination of a stationary distributor, the  
5 hinged magazine throat, the tube I attached to said throat, and a stationary tube H, arranged to receive matrices from the first named tube.

3. In a machine of the class described, the  
10 combination of the distributor, a stationary receptacle for pi matrices, and an intermediate conductor for guiding the matrices from the distributor to the receptacle, said conductor having its upper end hinged to swing  
15 away from its receiving position.

4. In a machine of the class described, the combination of a magazine B, a hinged throat for delivering matrices thereto, and a matrix conductor carried by said throat and  
20 arranged to deliver matrices outside of the magazine.

5. In a machine of the class described, the combination of a distributor, a magazine, and an intermediate hinged throat, constructed and arranged to deliver matrices  
25 from the distributor into the magazine, and also provided with a conductor to receive matrices from the distributor and deliver them outside of the magazine.

6. In a machine of the class described, the  
30 combination of a distributor, a removable magazine B, a magazine supporting frame A', a pi receiving tube H, a magazine throat F, hinged to the base frame A', and a pi tube I, carried by the hinged throat.  
35

In testimony whereof I hereunto set my hand this ninth day of November, 1910, in the presence of two attesting witnesses.

DAVID S. KENNEDY.

Witnesses:

JOHN R. ROGERS,  
EDGAR ROUSSEAU.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."

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