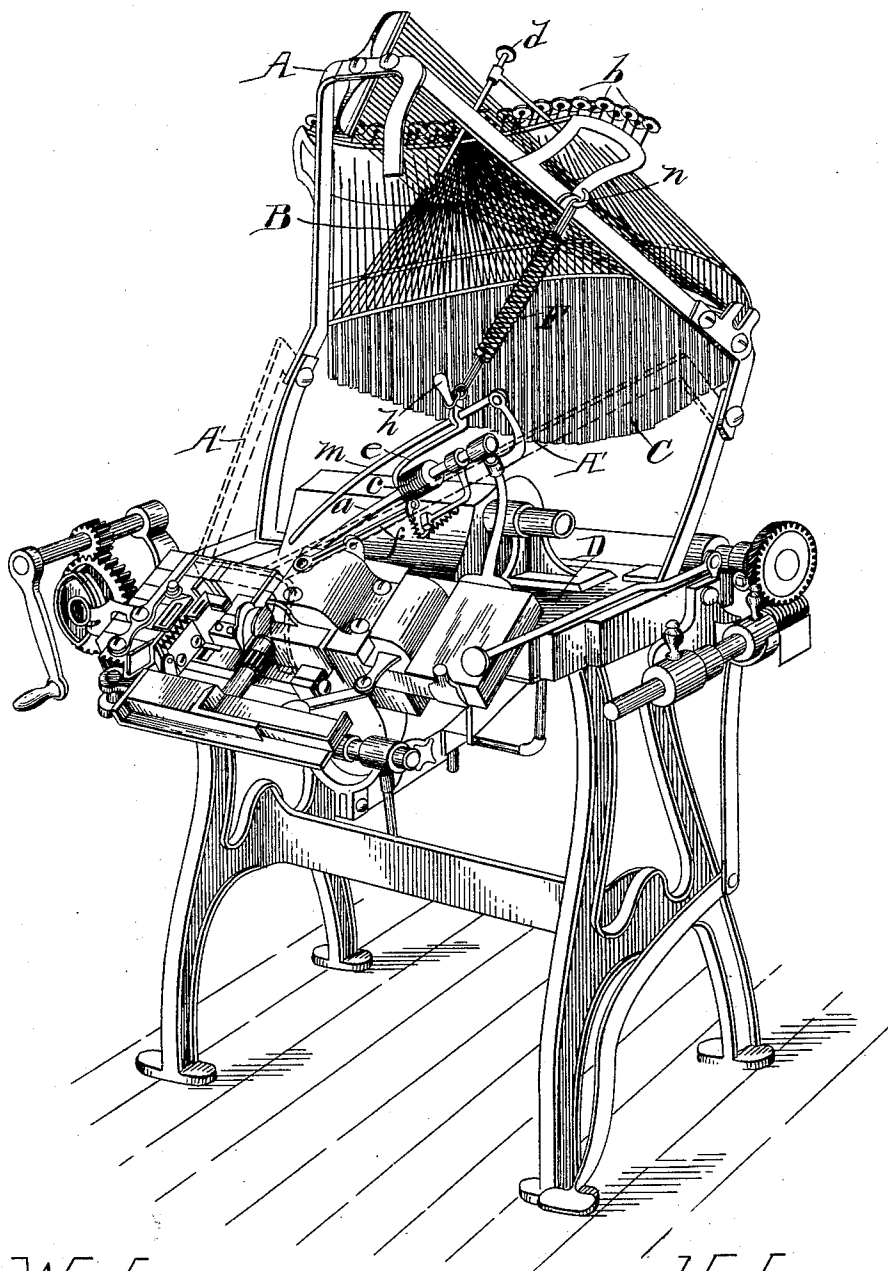


(No Model.)

J. SLOCUM.
TYPOGRAPH ATTACHMENT.

No. 483,023.

Patented Sept. 20, 1892.



WITNESSES.
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UNITED STATES PATENT OFFICE.

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TYPOGRAPH ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 483,023, dated September 20, 1892.

Application filed March 31, 1892. Serial No. 427,154. (No model.)

To all whom it may concern:

Be it known that I, JAMES SLOCUM, a citizen of the United States, residing at Holly, in the county of Oakland, State of Michigan, have invented certain new and useful Improvements in Typograph Attachments; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to an improved attachment for typographs; and it consists in a certain construction and arrangement of parts, as hereinafter fully set forth, the essential features of which being pointed out in the claims.

In typographs of the Roger construction, in which that portion of the machine-frame which supports the inclined guides upon which the matrices slide into line is adapted to be tilted back to return the matrices after a line has been cast, it is necessary at the same time the tilting frame is raised to operate a slide by hand to raise the spacers, which are independent of the matrices and mounted on the stationary frame, so as to bring them into position to be used again in setting another line. The tilting frame of the machine, being quite heavy, requires the strength of both hands of the operator to raise it, so that an extra movement is necessary after the frame has been tilted back to raise the spaces, causing a loss of time, and it sometimes occurs that the operator (especially a novice) in rapid operation forgets to raise the spacers, in which case the next line cannot be cast, as a proper receptacle for the molten metal is not formed, causing a promiscuous discharge of said metal, which adheres to the several parts and requires considerable time and labor before it can be removed and the machine again operated.

To overcome these objections and provide means for automatically raising the spacers simultaneously with the tilting back of the matrix-frame is the object of this invention, which object is attained by the mechanism illustrated in the accompanying drawing, in

which a typograph in perspective, with the matrix-frame tilted back, is shown provided with my improved attachment for raising the spacers.

Referring to the letters of reference, A designates the tilting frame of the machine, which supports a series of inclined ways B, that guide the matrices C into line adjacent to the casting-box when released by the operation of the keys *b*, which construction is well understood and in common use. Upon the stationary portion of the frame D is mounted an inclined way *a*, carrying the spacing-disks *c*, that are guided by said way into line with the matrices to separate the words in said line, said disks being operated by the key *d* on the carriage or tilting frame A when said frame is rocked down to the position shown by dotted lines A', in which position said key engages the lever *f*, which releases the spacers consecutively when actuated by said key. To restore said spacers after they have traveled down their inclined way to effect the proper division in a line formed by the matrices, there is employed a handle *h*, which is mounted to slide freely on an inclined guide *m*, said handle having a curved arm *e*, that engages said spacers, whereby by raising said handle the spacers are slid upward on their inclined way, in which position they are normally retained, the handle as soon as released sliding down the guide, so as to be in position to again raise the spacers after another line has been cast, which construction is also in common use. To provide for restoring said spacers simultaneously with the tilting back of the frame to retain the matrices, I employ, as shown in the drawing, a spring F, consisting of sections linked together, the upper end of which is attached at *n* to the tilting frame and the lower end to the handle *h* of the sliding arm *e*, by which means as the frame is tilted back the spacers are at the same time drawn upward on their inclined way and restored to their normal position, and when said frame is rocked forward said spring will slacken, permitting the sliding arm to return down its inclined way, so as to be in position for another operation, thus saving to the operator the extra motion of raising the spacers, insuring the restoration of the spacers

after each line has been formed, and obviating the labor and loss of time resulting from an improper cast.

While I have described and shown a spring
5 for raising the spacers, it is evident that other suitable means may be employed for connecting the sliding arm or rest that raises the spacers with the tilting frame without departing from the spirit of the invention.

10 Having thus fully set forth my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a typograph, the combination of the movable frame, the movably-mounted spacers,
15 the mobile arm or stop adapted to engage said spacers, and means for connecting said arm

or stop with the movable frame, whereby said spacers are restored simultaneously with the actuation of said frame.

2. In a typograph, the combination of the 20 tilting frame, the movably-mounted spacers, the arm or stop movably mounted and adapted to engage said spacers, and the spring connecting said arm or stop with the tilting frame, substantially as specified.

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

JAMES SLOCUM.

Witnesses:

E. I. BURRIDGE,
FANNIE SEXTON.