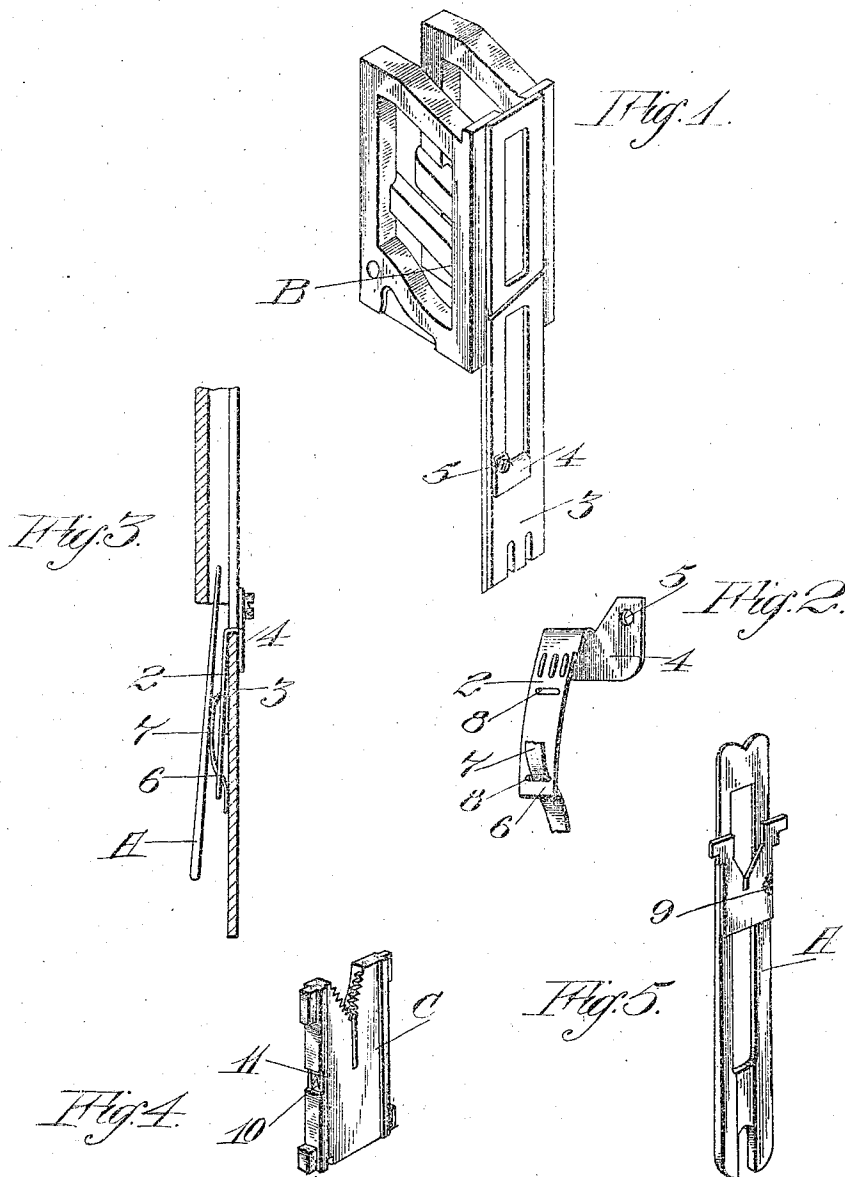


U. PIAGNERI.
CLEANING ATTACHMENT FOR SPACE BANDS OF LINOTYPE MACHINES.

APPLICATION FILED JAN. 3, 1910.

974,594.

Patented Nov. 1, 1910.



Witnesses:
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UNITED STATES PATENT OFFICE.

UMBERTO PIAGNERI, OF SAN FRANCISCO, CALIFORNIA.

CLEANING ATTACHMENT FOR SPACE-BANDS OF LINOTYPE-MACHINES.

974,594.

Specification of Letters Patent.

Patented Nov. 1, 1910.

Application filed January 3, 1910. Serial No. 536,059.

To all whom it may concern:

Be it known that I, UMBERTO PIAGNERI, citizen of Italy, residing in the city and county of San Francisco and State of California, have invented new and useful Improvements in Cleaning Attachments for Space-Bands of Linotype-Machines, of which the following is a specification.

This invention relates to linotype machines, and pertains particularly to the space-band mechanism thereof.

In linotype machines suitable matrices are assembled in an assembler and justified by space-bands, and are then in position to receive fluid in the casting mechanism. During the casting operation a small deposit of type-metal adheres to the space-bands at the casting point, and gradually accumulating by repeated use, in time forms noticeable and destructive lumps on the face of the space-band. At present it is compulsory to clean, by hand, each space-band not less than once a "shift", that is, every eight hours, and if it is not done, the lumps of metal adhering to the space-band will crush in the walls of the matrices by the closing of the vise in the machine.

At present, space-bands are daily scoured by rubbing them by hand on a pad or block containing a polishing paste or the like to remove the small deposits of type-metal adhering, and it is to obviate this slow, laborious, time-consuming requirement that I provide a device so disposed in the machine that each space-band is automatically given an abrasiye or polishing contact on its side each time it is released from the space-band box.

It is an object of my invention to provide means, either as a part of, or attachable to, linotype machines, having for its function the automatic scouring or wiping of the space-bands each time they are released from the space-band box, and which wiping means may be employed without any alterations whatsoever being made in the linotype machine.

The invention consists of the parts and the construction and combination of parts as hereinafter more fully described and claimed, having reference to the accompanying drawings, in which—

Figure 1 is a perspective of the space-band box and device. Fig. 2 is a perspective of the scouring device. Fig. 3 is a sectional detail of the space-band chute. Fig. 4 is

a perspective of the matrix. Fig. 5 is a perspective of a space-band.

A represents a space-band, and B the space-band box.

My invention comprehends the employment of a removable, renewable member, as 2, of suitable material and design adapted to be secured at any place on the machine most effective to be positively encountered by each space-band as it traverses its regular circuit, and I have shown it as secured to the space-band chute 3, leading from the box B. The member 2 may be formed with a flat bracket extension 4 perforated at 5 to receive a screw by which it is secured to the chute 3, and has a spring leaf 6 folded forwardly and downwardly so as to partially fill the channel of the chute 3. Preferably the member 2 is formed of springy material and the leaf 6 may be roughened or corrugated to have an abrasive surface, or may be covered with a flexible strip 7 saturated or coated with a polishing material and laced through perforations 8.

In Fig. 5, graphically shown at 9 on one face of the space-band A, is an accumulation of type-metal, which, when the space-bands and matrices C are assembled, always lines up evenly with the intaglios 10 in the several matrices. The intaglios 10 form very thin walls 11 at the casting point, and when the vise closes, the protuberances 9 clinging to the space-bands crush in the walls 11.

The operation and effect, then, of this invention is to so dispose and construct the member 2 that as each space-band falls through the chute 3, the spring leaf 6 will wipe, with a polishing effect, the deleterious type-metal from the face of the space-band. Thus, not only is this detrimental accumulation prevented, but the space-band is kept clean and polished automatically. While the direct effect of the operation is upon the space-bands themselves, there is also indirect effect on the general appearance and life of a font of matrices, for after a matrix has been crushed it produces a distorted, spotted type-bar.

The essential feature of the invention is the provision of a brushing or wiping device operative upon the face of a space-band, and this may be constructed as an incorporated part of the machine, or may be used as an attachment to the many machines now used.

Having thus described my invention, what

I claim and desire to secure by Letters Patent is—

1. A space band cleansing device comprising a resilient plate having one end removably secured to a stationary member and having the opposite free portion resilient and projecting into the path of space bands, and an abrasive material separably held upon said resilient portion.
2. In a linotype machine, a cleansing device projected into the path of space bands and comprising a plate having a flat bracket extension at one end by which it is removably attached to the machine, said plate having a spring leaf folded forwardly and downwardly and partially filling the channel through which the space bands pass, and

an abrasive material carried on said spring leaf.

3. In a linotype machine, a stationary wiper, removably secured to the machine, having a spring leaf member folded forwardly and downwardly so as to partially fill the channel through which the space bands pass, whereby it intercepts one side of a space band, and a removable, renewable abrasive material carried by said spring leaf.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

UMBERTO PIAGNERI.

Witnesses:

CHARLES EDELMAN,
UDESAMIN.