

G. E. WALLIN.
SPACE BAND BUFFER FOR LINOTYPE MACHINES.
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976,957.

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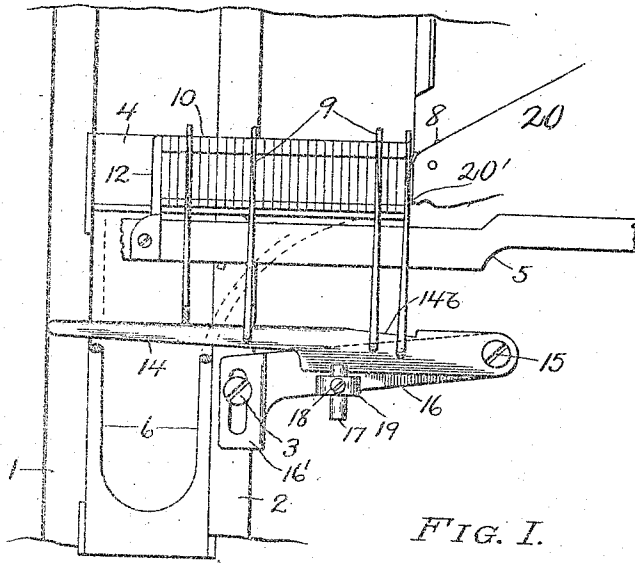


FIG. I.

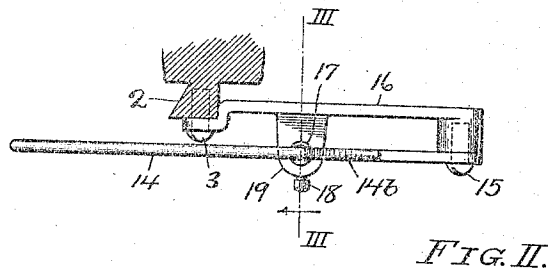


FIG. II.

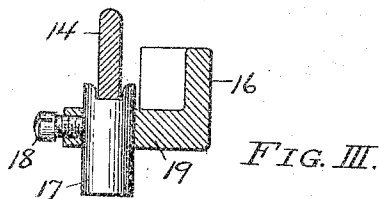


FIG. III.

WITNESSES:

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SPACE-BAND BUFFER FOR LINOTYPE-MACHINES.

976,957.

Specification of Letters Patent.

Patented Nov. 29, 1910.

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To all whom it may concern:

Be it known that I, GUSTAF E. WALLIN, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Space-Band Buffers for Linotype-Machines; 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 drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to space-band buffers for linotype machines, and has for its object to provide a device of that class which is simple and economical in construction and comprises the improved details of structure hereinafter described.

To give a better understanding of my invention, I will explain that the space-bands referred to are used as "quads" between the matrices, and each space-band has a notched bottom adapted to receive a horizontally extending, guiding member that is attached to and forms a part of the linotype machine. Such guiding members or "buffers," have been faulty in operation, inasmuch as they occasionally permit matrices to lean over against the star-wheel when the line is filled up. These faults are obviated by the device herein described and pointed out in the appended claims; and a preferred embodiment of the invention is illustrated in the accompanying drawings, in which:

Figure I is a front elevation showing my space-band buffer, a line of matrices, several space-bands, and the "assembler" in section. Fig. II is a top plan view of the buffer, the part 2 being in section. Fig. III is a sectional detail view taken on the line III—III of Fig. II.

Referring more in detail to the parts:—In order that the invention shall be more clearly apprehended, I have shown in Fig. I certain well known parts of a linotype machine, to wit: the elevator guides, 1 and 2; a screw 3 which enters a hole in the right-hand elevator guide 2; the rear wall 4 of the "assembler;" the "assembler slide," 5; the "assembler elevator" 6; the star-wheel 8, and the chute cover 20.

The functions of all of the parts mentioned are well known to all who are familiar with the art of linotyping.

Referring now more particularly to my improvements, 9 designates several of the space-bands referred to, shown assembled in a line of matrices 10, which are supported within the assembler 4. The matrices and space-bands are held in contact by a lug 12 on the slide 5, which is tensioned by a spring, not shown.

14 designates my improved buffer, which consists of a narrow finger disposed horizontally in vertical alinement with the centers of the space-bands 9, the finger being provided in its upper edge with a recess having an inclined surface 14^b. When the space bands are dropped from the chute onto this buffer their lower ends impinge upon the incline 14^b, and, being smooth, their lower ends will slip down this incline, by gravity, while their upper parts are held out by the end 20' of the chute cover 20. Therefore the upper end of each space-band will lean to the left, or away from the star wheel, and hold the matrices out of contact therewith. As the space bands are fed into the assembler and moved horizontally therein, it will be understood that they will drag on the buffer 14 to maintain the leaning position. At one end this buffer is pivoted upon a screw stud 15, held by a bracket 16 having a slotted foot 16', which is secured by the screw 3 to the right-hand elevator guide, 2, the pivotal mounting being provided in order that its free end may be lifted by the assembler elevator when the latter contacts therewith upon its up stroke. 17 designates an adjustable stop, which is held in a lug 19 on bracket 16 by a set screw 18, and is adapted for supporting the buffer 14, the stop 17 being notched, as shown, to loosely receive the lower edge of the buffer.

The height of the buffer is so adjusted that each space-band 9 entering the assembler at the right will drop until its notched lower end strikes the lower part of the incline 14^b.

The straight surface of the top of the buffer should be parallel to the guides of the assembler 4, which guides in the machine illustrated are horizontal. The adjustable stop 17 provides a means for adjusting the parallelism of the buffer. The op-

erative effect of this buffer is such that when the gate (not shown) is opened, the space-bands cannot drop; and furthermore, when the line is filled up, the right-hand end matrix cannot lean sidewise into contact with the star-wheel 8.

Having thus described my invention, what I claim as new therein and desire to secure by Letters Patent is:—

10 1. The combination with a supporting bracket, of a buffer mounted on said bracket and comprising a finger having an incline in its upper edge rising in the direction of travel of the space bands which it is adapted
15 to support.

2. The combination with a linotype machine, of a space band buffer pivotally mounted on the machine and comprising an elongated finger having a notch in its upper
20 edge, one edge of said notch being inclined upwardly in the direction of travel of the space bands to be carried thereby.

3. A space-band buffer comprising a narrow finger pivotally supported at one end
25 having its upper surface formed with an initial upward incline merging into a rectilinear surface, which rectilinear surface is

parallel to the path of movement of the space-bands in the assembler.

4. In combination, a bracket provided 30 with a vertically adjustable buffer support and a pivot stud; a buffer pivotally mounted on said stud and supported by said support consisting of a finger provided with an initial upwardly inclined surface and a recti- 35 linear surface communicating with the upwardly inclined surface.

5. The combination with a linotype machine having elevator guides, of a bracket adjustably mounted on one of said guides, a 40 space band buffer having one end pivotally mounted on the free end of said bracket and having an incline on its upper edge, a lug on said bracket and a stop adjustably mounted in said lug, said stop being slotted at its 45 upper end to receive said buffer, substantially as set forth.

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

GUSTAF E. WALLIN.

Witnesses:

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