L. C. BRIDGE.

PRINTING MACHINE.

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1,049,987.

Patented Jan. 7, 1913.

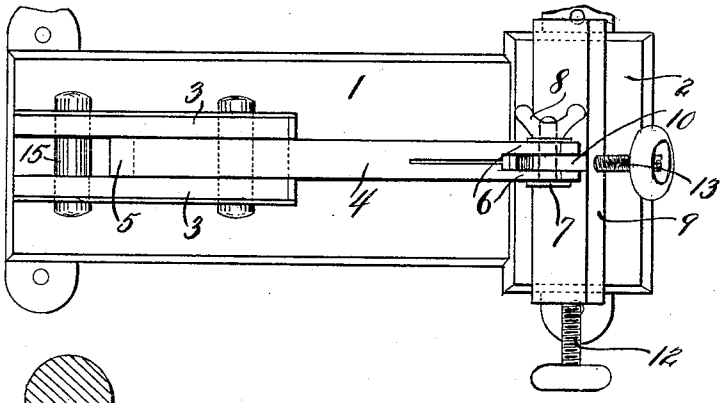

Fig. 1

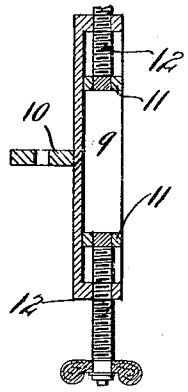

Fig. 2

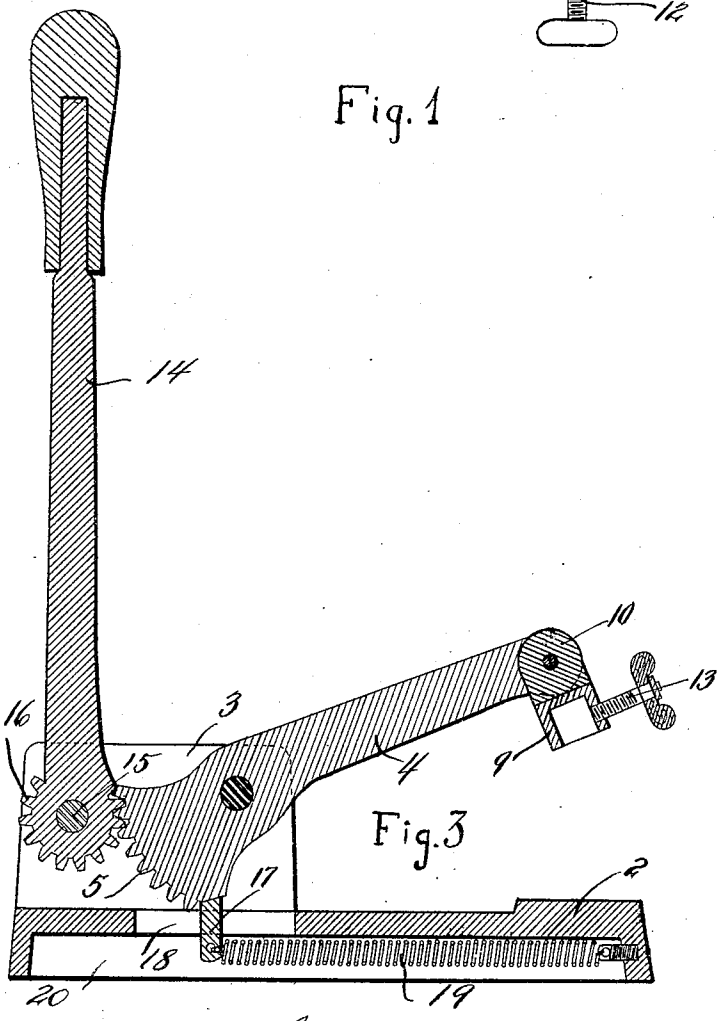

Fig. 3

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UNITED STATES PATENT OFFICE.

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PRINTING-MACHINE.

1,049,987. Specification of Letters Patent. Patented Jan. 7, 1913.

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To all whom it may concern:

Be it known that I, LEWIS C. BRIDGE, a citizen of the United States, residing at Elmira, in the county of Chemung and State of New York, have invented certain new and useful Improvements in Printing-Machines, of which the following is a specification.

This invention relates to printing machines and especially designed for printing or stamping characters with gold leaf.

Machines for this purpose have been devised but usually are of a heavy and cumbersome nature while in the present invention, an object resides in providing a light and portable machine and at the same time constructing it whereby a sufficient pressure may be obtained to effect the printing.

A further object is found in the peculiar mounting of the chase on the chase supporting arm whereby the type may be set in position without necessitating the removal of the chase.

With the above and other objects in view, reference is to be had to the following description and the accompanying drawing, wherein—

Figure 1 is a top plan view of the machine having the operating lever omitted. Fig. 2 is a vertical sectional view thereof. Fig. 3 is a longitudinal sectional view of the chase.

Throughout the following detail description and on the several figures of the drawings similar parts are referred to by like reference characters.

The printing machine forming the subject-matter of the present invention comprises the base 1 supporting or having formed thereon a platen 2 at one end thereof, and at its opposite end supports a pair of spaced upstanding ears 3. Pivotally mounted between these spaced ears 3 is an arm 4 carrying on its terminal which passes between said ears a curved rack 5, while its opposite terminal is bifurcated to provide spaced spring ends 6. These spring ends or parts 6 are provided with registering apertures to receive a bolt 7, said bolt carrying on its threaded terminal the winged nut 8.

A chase 9 is provided with an apertured ear 10 which is adapted to be received between the spring members 6, whereby the chase may be swingingly supported on the arm 4. The chase proper comprises an oblong box in which the type is received and has slidably mounted therein the type clamping or holding plates 11 which have inparted thereto a sliding movement by the screws 12. For properly alining the type the screw 13 is provided to bear against a plate (not shown) interposed between the line of type and said screw.

When it is desired to set the type in the chase 9 the latter is swung on the arm to an inverted position whereby the type receiving recess opens upwardly, which greatly facilitates the operation of setting type. After the type is properly clamped in the chase, the latter is swung to its normal position as disclosed in Figs. 1 and 2 whereby on downward movement of the arm 4, the type is brought into contact with the article to be stamped or printed supported on the platen 2. The chase is freely movable on its pivot bolt 7 so that the chase will gravitate to its proper position, and thereby secure the proper position for the stamping or printing operation.

The operating lever 14 is pivoted at 15 between the spaced ears 3, and is provided with the mutilated pinion 16 adjacent its pivotal connection, said pinion meshing with the rack 5, whereby on operating the lever 14 the bifurcated terminal of the chase carrying arm 4 is moved downwardly to bring the type in the chase into contact with the platen 2 supported on the body 1.

For normally holding the chase off or raised from the platen 2, the rack terminal of the lever 4 is provided with a downwardly extending finger 17 which operates through a slot 18 provided in the body 1, and intermediate the ears 3. This finger 17 is connected to the body 1 by a coil spring 19 seated in the hollow portion 20 of the body. It will be observed that the spring 19 normally retains the several parts of the device in the position illustrated in Fig. 2, and when it is desired to stamp or print the desired character the chase will be moved toward the platen 2 upon imparting downward oscillatory movement to the operating lever 14. Since the chase is self-leveling,

it is obvious that the type will always strike flat and solid.

Having thus described my invention, what is claimed as new is:—

In a printing machine, a body, spaced ears thereon, said body having a slot between said ears, an arm movably supported by said ears, a finger projecting from said arm through the slot in the body, a spring connecting said finger to the body, a platen, a chase carried by said arm, a rack carried by the arm, a lever pivoted to the ears, and a pinion carried by the lever and meshing with the rack.

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

LEWIS C. BRIDGE.

Witnesses:

LEWIS C. GILMORE,

CHAS. SNYDER.

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