

Jan. 2, 1923.

1,440,584

E. M. COOPER
TYPEWRITER DEVICE.
FILED MAR. 26, 1921.

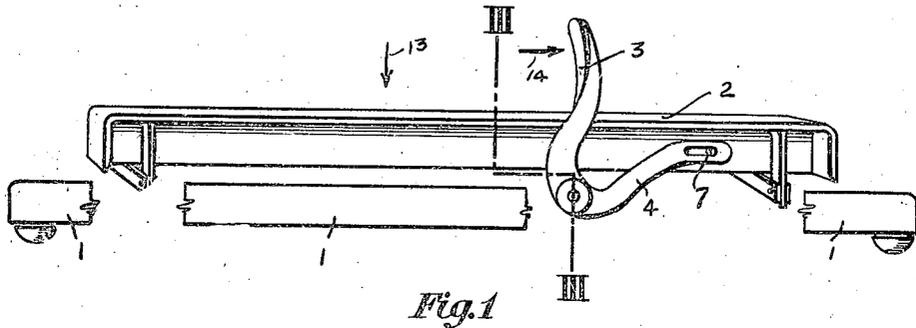


Fig. 1

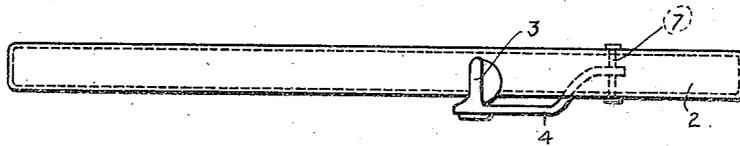


Fig. 2

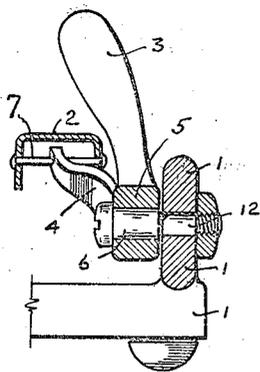


Fig. 3

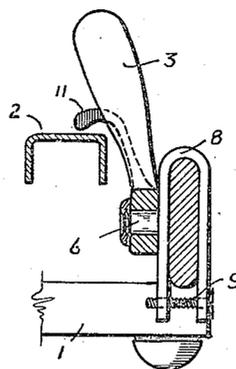


Fig. 4

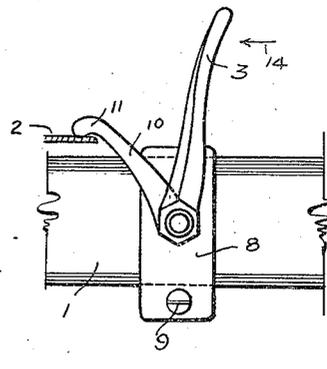


Fig. 5

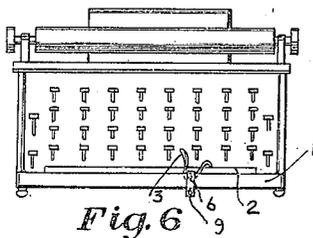


Fig. 6

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UNITED STATES PATENT OFFICE.

ERWIN M. COOPER, OF SAN FRANCISCO, CALIFORNIA.

TYPEWRITER DEVICE.

Application filed March 26, 1921. Serial No. 455,757.

To all whom it may concern:

Be it known that I, ERWIN M. COOPER, a citizen of the United States, and resident of the city and county of San Francisco, State of California, have invented new and useful Improvements in Typewriter Devices, of which the following is a specification.

My invention has for its object a device which may be attached to a standard form of typewriter for the purpose of operating the spacing mechanism by a lateral movement of the thumb, and this I accomplish by providing a bell crank attached to a pivot to the stationary part of the typewriter frame and having one of its arms formed as a finger member and standing substantially vertical and the other arm standing in substantially a horizontal position and connected to or contacting with the vertically operable spacing bar, or parts with which the spacing bar is attached, to operate the spacing mechanism of the typewriter.

By referring to the accompanying drawings my invention will be made clear.

Fig. 1 is a front view of a portion of a typewriter showing particularly the spacing bar with my invention applied thereto, the remaining portions of the typewriter being well known and not shown.

Fig. 2 is a plan view of certain parts of Fig. 1.

Fig. 3 is a cross section through the spacing bar and a portion of the stationary frame of the typewriter of Fig. 1 on the line III—III thereof, and showing my device in perspective and with the hub portions in section to show the manner of pivoting.

Fig. 4 is similar to Fig. 3 illustrating a variation in the construction of the device wherein the pivot for the bell crank is carried upon a separate member, which latter may be clamped in any desired position on the front stationary frame of the typewriter.

Fig. 5 is a rear view of the parts of Fig. 4.

Fig. 6 shows a typewriter device affixed thereto.

Throughout the figures similar numerals refer to identical parts.

A portion of the stationary frame of the typewriter machine is shown by the numerals 1, 1, within which is the well known

spacing bar 2, 2, adapted to actuate the spacing mechanism of the typewriter in the well known way. At 3 is shown the finger member and at 4 an operating member of my bell crank which are joined together at the hub 5 and operate freely about the pivot 6.

Where the parts are fitted to the typewriter in the factory I prefer to extend the arm 4 below the bar 2 and connect it thereto as by the pivot 7 operating in a slot in the arm 4 or it may be connected by a link. Where the device is separable from the typewriter and made as an article of manufacture the form indicated in Figs. 4 and 5 will be preferable, in which case the pivot 6 is formed with the U member 8, the latter adapted to straddle the stationary part 1 and be clamped thereto by the screw 9. In this latter construction the second arm of the bell crank may be formed as shown in Fig. 5 with its rounded end 11 resting lightly upon the spacing bar 2. In either form it will be noted that the pivot 6 is rigidly fixed with the frame 1 either by direct connection therewith as at 12 or through the instrumentality of the U piece 8.

Referring particularly to Fig. 1 it will be noted that the spacing was heretofore accomplished upon the typewriter by the vertical downward movement of the spacing bar 2 in the direction of the arrow 13, whereas with my invention the lateral movement of the finger member 3, as by the thumb, in the direction of the arrow 14, will now cause the depression of the said spacing bar and the operation of spacing.

I claim:

1. The combination with the frame and spacer bar of a typewriter, of an attachment for operating the spacer bar, comprising a clamp removably mounted on the frame, and a lever pivoted on said clamp and having an arm adapted to be engaged by the hand of the operator and an arm arranged to operate the spacer bar.

2. The combination with the front bar of the frame of and the spacer bar of a typewriter, of an attachment for operating the spacer bar comprising a clamp removably mounted on said front bar, and a lever pivoted on the clamp between said front bar and said spacer bar and having an arm

adapted to be engaged by the hand of the operator, and an arm arranged to operate the spacer bar.

3. An attachment for typewriters comprising, a clamp having a leg adapted to removably embrace the inner face of the front bar of the frame of a typewriter, a lever pivoted on said leg of the clamp so as to be

disposed between said front bar of the frame and the spacer bar of the typewriter when the clamp is in position, said lever having an arm adapted to be engaged by the hand of the operator and an arm adapted to operate the spacer bar. 10

ERWIN M. COOPER.