C. A. PATTEN.

ATTACHMENT FOR TYPE WRITERS.

APPLICATION FILED NOV. 16, 1915.

1,202,213. Patented Oct. 24, 1916

Fig. 1

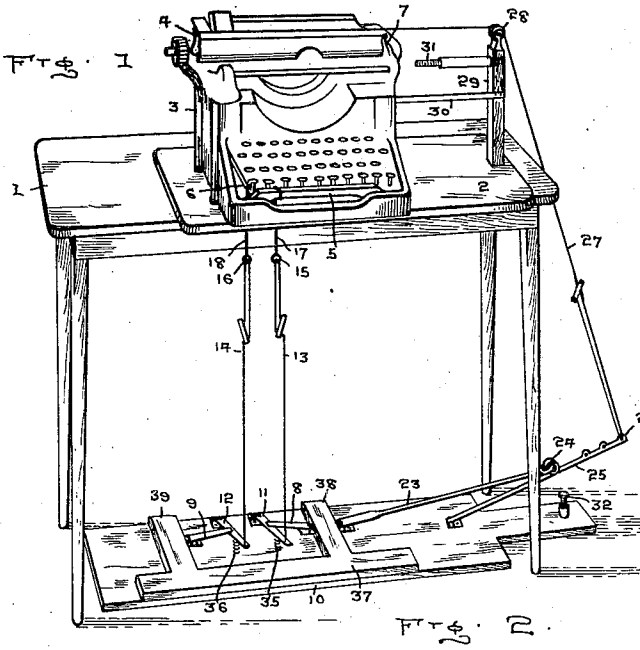


Fig. 3.

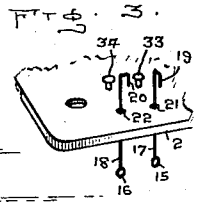
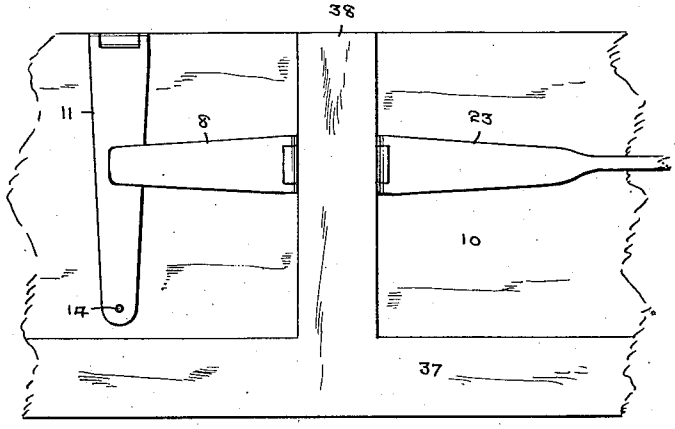


Fig. 2.



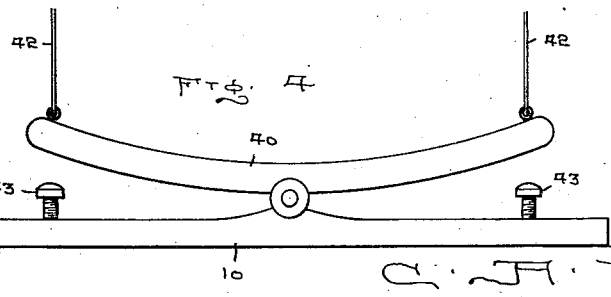


Fig. 4

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UNITED STATES PATENT OFFICE.

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ATTACHMENT FOR TYPE-WRITERS.

1,202,213. Specification of Letters Patent. Patented Oct. 24, 1916.

Application filed November 16, 1915. Serial No. 61,751.

To all whom it may concern:

Be it known that I, CLINTON A. PATTEN, a citizen of the United States, residing at San Diego, in the county of San Diego and State of California, have invented certain new and useful Improvements in Attachments for Type-Writers; and I do hereby 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.

My invention relates to attachments for typewriters, and my object is to provide means for operating the key shift, space bar and carriage by pressure of the foot.

A further object is to provide means for readily attaching the operating parts to the machine.

A further object is to provide means for stopping the movement of the carriage in one direction at a predetermined point. And a further object is to provide adjustable means for parts of the operating mechanism.

Other objects and advantages will be hereinafter set forth and more particularly pointed out in the accompanying specification.

In the accompanying drawings which are made a part of this application, Figure 1 is a perspective view of a typewriter showing my improved attachment applied thereto. Fig. 2 is a detail plan view of two of the foot levers and foot rests therefor. Fig. 3 is a detail perspective view showing the manner of attaching parts of the device to parts of the typewriter. Fig. 4 is a detail elevation of a key shifting lever.

Referring to the drawings in which similar reference numerals designate corresponding parts throughout the several views, 1 indicates a table which may be constructed in any preferred manner, upon which is placed a platform 2 and mounted upon said platform is a typewriter 3 of the ordinary construction, said typewriter having as parts of the construction, a shifting lever 4, a space bar 5, and type shifting key 6, and a carriage 7, all of said parts being of the usual or ordinary construction.

In order to depress the space bar 5 or the type shifting key 6 by pressure of the foot of the operator, treadles 8 and 9 are hingedly secured at one end to a base plate 10, the opposite ends thereof being positioned over levers 11 and 12 respectively which are likewise hingedly secured to the base plate, the levers 11 and 12 preferably extending at right angles to the treadles 8 and 9. Extending upwardly from the free ends of the levers 11 and 12 are cables 13 and 14 respectively, the upper ends of which are extended through eyes 15 and 16 of rods 17 and 18, the upper ends of said rods having hooks 19 and 20 which engage with the space bar 5 and type shifting key 6 respectively, said rods extending through openings 21 and 22 in the platform 2 and in order to accommodate the cables for tables or desks of varying heights, the cables are adjustably attached to the eyes in any suitable manner so that they can be lengthened or shortened if desired.

The movement of the carriage 7 in one direction is likewise accomplished by directing pressure of the foot upon a treadle 23, one end of which is also pivotally attached to the base plate 10, the outer end of said treadle preferably having a channel pulley 24 which engages an operating bar 25, one end of which is likewise pivotally attached to the base plate, the pulley 24 engaging said bar between its pivoted and free ends.

Adjustably attached to one of a series of loops 26 formed upon the bar 25 is a cable 27 which extends upwardly from the bar over a sheave 28 and into engagement with the shifting lever 4, the cable preferably extending beyond the end of the supporting table or desk, the end of the cable being removably secured to the shifting lever. The sheave 28 is mounted upon the end of a standard 29 carried by the platform 2, a brace rod 30 extending from said standard to the typewriter to reinforce said standard and hold the typewriter properly spaced from the standard.

When using this improved device, the usual form of marginal spacing stop may be dispensed with in lieu of which an adjustable stop 31 is attached to the standard 29 to engage the end of the carriage 7 as it is moved in one direction, thus directing the impact of the force of the carriage against the standard instead of against the usual form of stop now used upon the machine thus obviating the possibility of injuring the parts of the machine should the same be returned to its initial starting position with undue force.

The downward swinging movement of the bar 25 is regulated by means of an adjust-

able bumper 32 attached to the base plate 10, while the downward movement of the space bar 5 and type shifting key 6 is likewise limited by means of set screws 33 and 34 respectively carried by the platform 2. The levers 11 and 12 are returned to their normal elevated positions after being depressed by introducing springs 35 and 36 respectively between the base plate and free ends of said levers.

In order to position the feet of the operator in convenient reach of the treadles 8 and 9 and the treadles 23, the rest block 37 is attached to the forward edge of the base plate 10, said rest block having extensions 38 and 39 extending laterally therefrom to receive the feet of the operator and as said extensions are in juxtaposition to the treadles 8 and 23 and the treadles 9 respectively, it is but necessary to shift the foot sidewise and direct downward pressure upon the various treadles by tilting the foot sidewise in order to operate the same. By operating the treadles in this manner but a slight exertion is required to operate the treadle and does not necessarily tire the foot or strain the muscles of the operator in operating the treadles.

In some makes of machines there are three characters used upon each type bar and in order to bring any one of the type in registration with the platen of the typewriter it would require two type shifting keys and in order to accommodate the device for machines of this class the treadle 9 and its cooperating lever is dispensed with and a rocking lever 40 provided, said lever being pivoted at its longitudinal center to the base plate 10, said rocking lever having a cable 42 at each end thereof which coöperates with the respective type shifting keys of the machine, the movement of the rocking lever being limited in either direction by means of adjustable bumpers 43.

If it is desired to store the machine, it is but necessary to disengage the cable 27 from the shifting lever 4 and the hooks 19 and 20 from the space bar and type shifting key respectively when the machine may be lifted from the platform 2 and stored in any suitable place and when the machine is again placed in use, it is but necessary to reëngage the end of the cable 27 with the shifting lever and the hooks with their respective parts which may be accomplished quickly.

Having thus fully described my invention what I claim as new and desire to secure by Letters Patent of the United States is:—

1. The combination with a typewriter having a shifting lever, a space bar and a type shifting key, of pivotally mounted pressure receiving treadles, a plurality of pivotally mounted levers at right angles to said treadles adapted to be operated by said treadles, cables attached to said levers, means to removably attach said cables to said parts of the typewriter, and stationary foot rests adjacent the pivoted ends of said treadles whereby when the foot of the operator is rocked laterally on said rests the treadles will be depressed and the parts of the typewriter operated.

2. The combination with a typewriter having a shifting lever, a space bar and a type shifting key, of pressure receiving treadles, levers engaged and operated by said treadles, cables attached to said levers, means to attach said cables to said parts whereby said parts will be operated when the treadles are depressed and means to adjust the length of said cables.

3. The combination with a typewriter having a shifting lever, a space bar and a type shifting key, of a plurality of treadles, a base plate, a plurality of levers, said treadles and levers being secured to said base plate, adjustable cables connected to said levers and said parts of a typewriter, a standard, and an adjustable stop carried by said standard adapted to limit the movement of parts of the typewriter in one direction.

4. The combination with a typewriter having a space bar and a type shifting key, of hingedly mounted treadles, hingedly mounted levers extending at right angles to said treadles and adapted to be engaged by the free ends of said treadles, adjustable cables attached to said levers, and rods having eyes at one end to receive said cables, and hooks at their opposite ends to engage said space bar and type shifting key respectively whereby said parts will be operated when the treadles are depressed.

5. The combination with the carriage of a typewriter and a shifting lever therefor, of a treadle, a bar adapted to be depressed by said treadle, said treadle having a pulley for engagement with the bar, a cable extending from said bar to said shifting lever, a sheave over which said cable passes, a standard supporting said sheave, and an adjustable stop carried by the standard adapted to engage and limit the movement of the carriage in one direction.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CLINTON A. PATTEN.

Witnesses:
CARA E. PATTEN,
LEZLIE P. SCHOLES.

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