H. A. STONE.

EXTENSION LEAF FOR TYPE WRITERS.

APPLICATION FILED MAY 14, 1913. RENEWED JAN. 22, 1917.

1,239,135.

Patented Sept. 4, 1917.

2 SHEETS—SHEET 1.

Fig. 1.

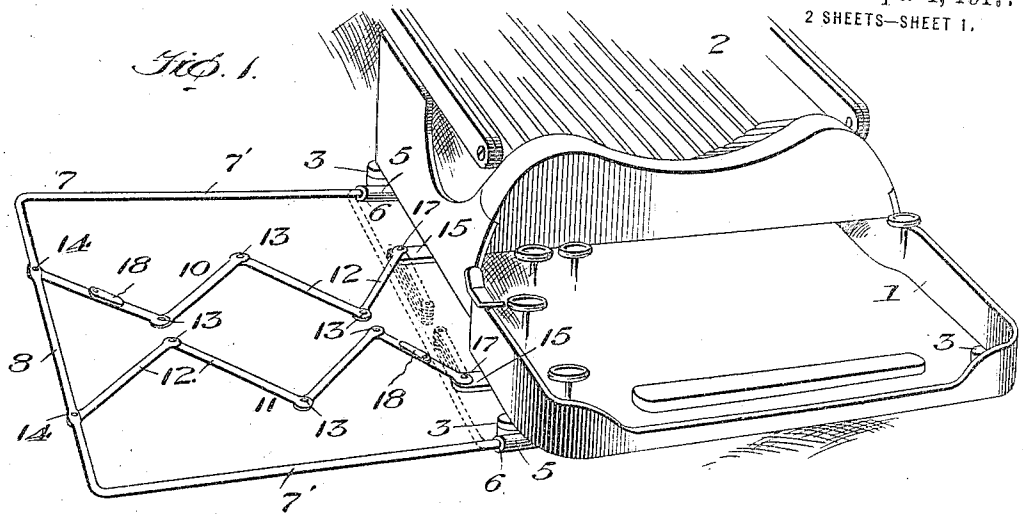
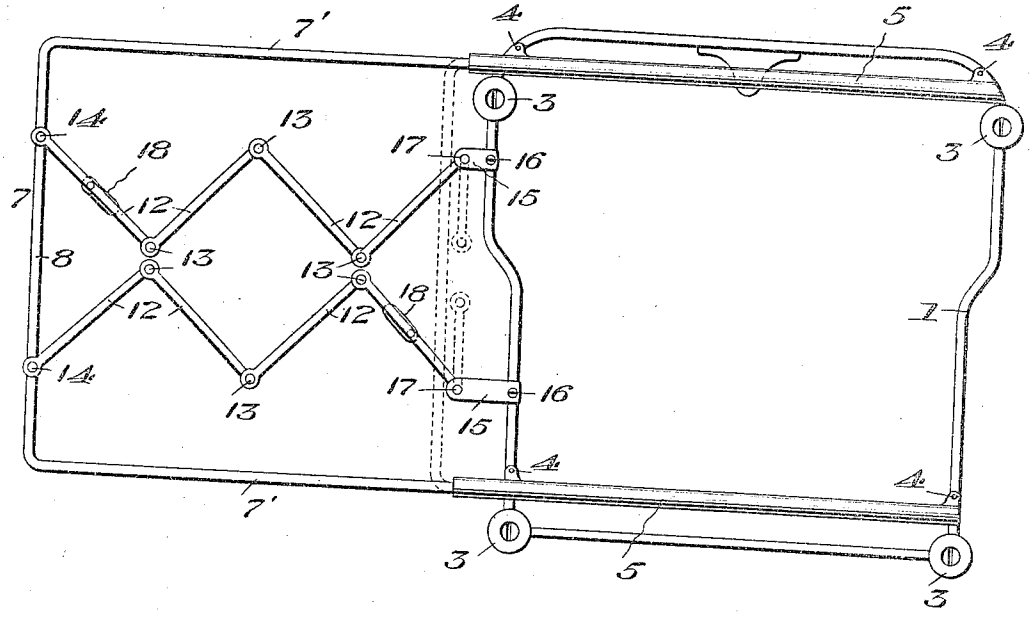


Fig. 2.



Witnesses

G. V. Lockwood

Inventor

Harry A. Stone

By Geo. Whitaker

His Attorney

H. A. STONE.

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2 SHEETS—SHEET 2.

Fig. 3.

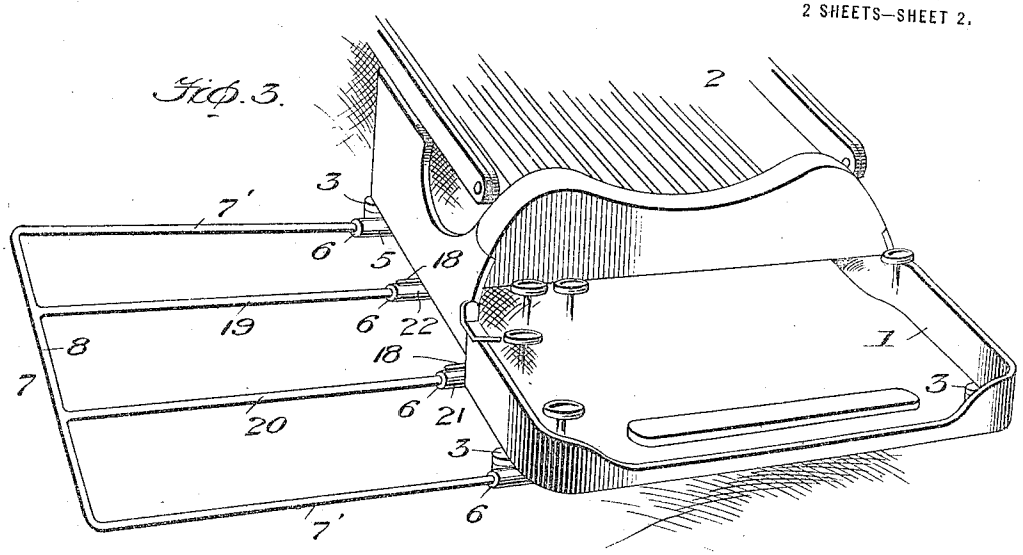


Fig. 4.

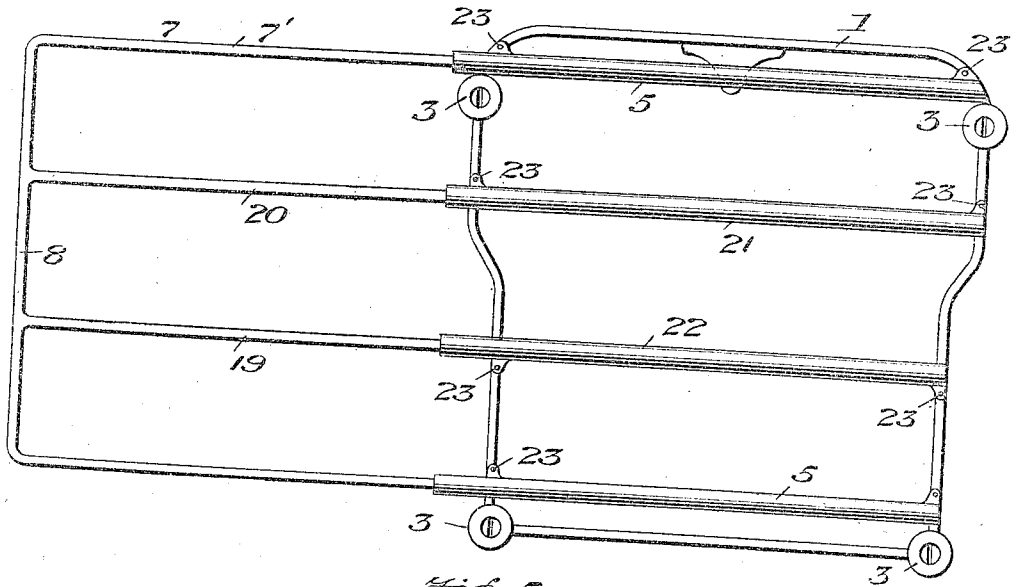
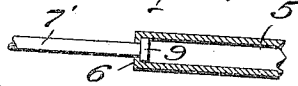


Fig. 5.



Witnesses

T. V. Tuckwood

Inventor

Harry A. Stone

By

Attorney

UNITED STATES PATENT OFFICE.

HARRY A. STONE, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO FOLDING-STAND COMPANY, INC., OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

EXTENSION-LEAF FOR TYPE-WRITERS.

1,239,135. Specification of Letters Patent. Patented Sept. 4, 1917.

Application filed May 14, 1913, Serial No. 767,691. Renewed January 22, 1917. Serial No. 143,842.

To all whom it may concern:

Be it known that I, HARRY A. STONE, a citizen of the United States, residing at Philadelphia, county of Philadelphia, and State of Pennsylvania, have invented certain new and useful Improvements in Extension-Leaves for Type-Writers, of which the following is a specification.

This invention relates to extension leaves for typewriters.

The object of the present invention is the provision of a simple, light, inexpensive and neat extension leaf of improved construction and combined with a typewriter in an improved manner; which will be carried by the typewriter frame and be self-contained and portable therewith and adapted to be extended for use as a support for papers, or any article and may be folded or closed, when not desired for use, into compact and unobtrusive form.

In carrying out the invention, I provide, first, an extension leaf combined with a typewriter; second, an extension leaf combined with a base spring of a typewriter in a new manner; third, an improved extension leaf having slide rods and a cross-piece, combined with tubes attached to the base frame of a typewriter in which the slide rods move to fold or extend the frame; fourth, an improved extension leaf having slide rods, a cross-piece, an internal part, and guiding means on the typewriter frame, whereby the leaf may be folded or extended at will; fifth, the improved construction of extension leaf and novel combination thereof with a typewriter base frame as more fully set forth hereinafter.

In the accompanying drawings:—

Figure 1 is a perspective showing the improved leaf combined with a typewriter, the leaf being in extended condition;

Fig. 2, a bottom plan view thereof;

Fig. 3, a view like Fig. 1, showing another form of the invention;

Fig. 4, a bottom plan view thereof; and

Fig. 5, a detail section showing the device used on both of the preceding forms to prevent accidental detachment of the extension leaf.

Referring first to Figs. 1 and 2, 1 represents the base frame of an ordinary typewriter 2, the frame 1 being preferably provided with the usual feet 3 by which a typewriter is supported clear of the table or desk on which it is intended to rest.

Secured to frame 1 in any suitable manner, for instance, by lips and screws 4, are tubes 5 (Fig. 5) which are open throughout their extent, but at their ends where the extension leaf enters them are provided with internal shoulders 6.

The leaf has an outer U-shaped frame 7 provided with a cross-piece 8, the legs 7′ sliding in the tubes 5 and being provided with heads 9 to fit said tubes. These heads, one being provided on each frame part 7′, by their engagement with the shoulders 6, prevent accidental detachment of the extension leaf when it is pulled out for use to the position shown in the drawings. When the frame is folded or pushed into the tubes 5, the cross-bar 8 resumes the position shown in dotted lines and is then disposed close to the side of the frame 1 in unobtrusive arrangement.

The internal or central part of the leaf of Figs. 1 and 2 is composed of a pair of articulated members 10 and 11 which are composed of flat arms 12 jointed to each other at 13 and to the cross-piece 8 at 14. Any suitable means may be provided for joining them to the frame 1; I have shown short arms 15 detachably connected to the frame 1 at 16, the articulated members being hinged to the arms 15 at 17, preferably certain of the arms 12 are provided with pivoted clips or fasteners 18 for fastening the edges of sheets of paper to the extension leaf to prevent them from blowing away or accidentally falling therefrom. These devices 18 may be employed on the form of the invention shown in Figs. 3 and 4.

When the form shown in Figs. 1 and 2 is folded or collapsed, the cross-bar 8 assumes the dotted line position and the articulated members fold or collapse with the arms 12 thereof folded into coincidence one above the other and substantially parallel to the cross-bar 8 so that the whole leaf is in compact and unobtrusive arrangement at the side of the typewriter frame 1, the outside frame members 7 sliding in the tubes 5.

In the form shown in Figs. 3 and 4, I substitute for the articulated members 10 and 11, straight rods 19 and 20 which are fas-

tened to the cross-bar 8 and slide in guide tubes 21 and 22 suitably attached by ears and fasteners 23, to the bottom of frame 1.

The invention may be applied to the typewriter when it is manufactured or subsequently as an attachment and when applied, it is self-contained with the typewriter and is portable therewith, being closed or folded when not desired, and extended for use, as shown in the drawings, when needed.

I am aware that changes of construction and arrangement of the leaf can be resorted to in carrying out the invention and I claim all equivalent constructions within the spirit and scope of the invention.

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

An attachment for a typewriter frame, embodying an extension leaf consisting of slide rods slidably mounted on the frame, and a system of extensible articulated arms movable with the slide rods.

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

HARRY A. STONE.

Witnesses:
IDA M. WALTERS,
ELSIE MCWILLIAMS.

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