W. FARKAS AND C. GREBENSTEIN.

BOOK INDEXING MACHINE.

APPLICATION FILED AUG. 10, 1920.

1,381,814. **Patented June 14, 1921.**

Fig. 1.

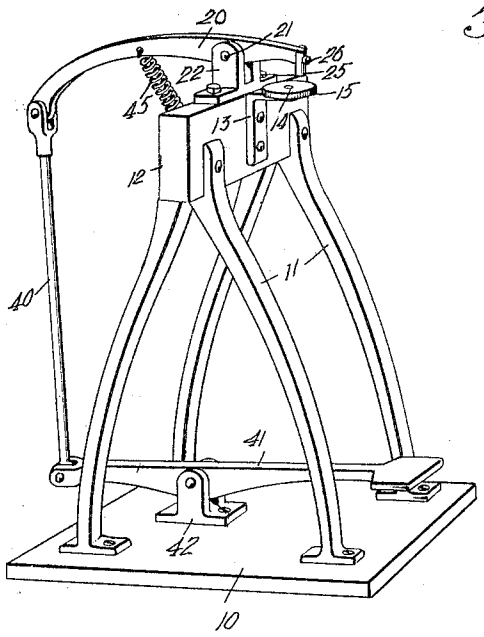


Fig. 3.

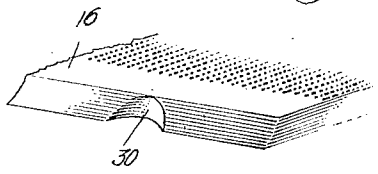
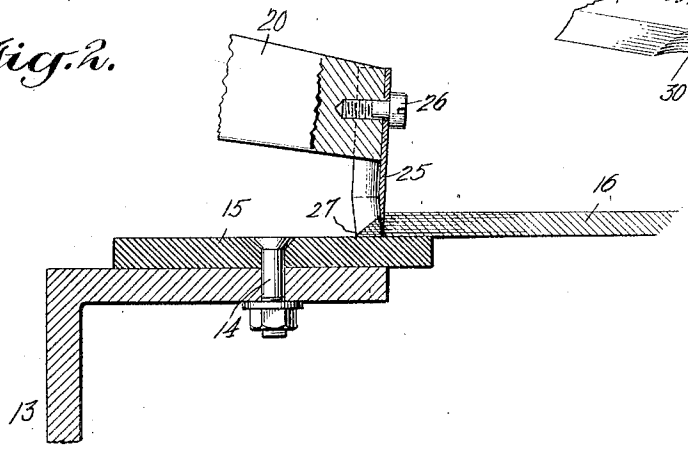


Fig. 2.



WITNESSES

Geo. Maylor

Rev. J. Hoster, J.

INVENTORS

WILLIAM FARKAS

CHARLES GREBENSTEIN

BY Munn & Co.

ATTORNEYS

UNITED STATES PATENT OFFICE.

WILLIAM FARKAS, OF NEW YORK, AND CHARLES GREBENSTEIN, OF BROOKLYN, NEW YORK.

BOOK-INDEXING MACHINE.

1,381,814. Specification of Letters Patent. Patented June 14, 1921.

Application filed August 10, 1920. Serial No. 402,576.

To all whom it may concern:

Be it known that we, WILLIAM FARKAS and CHARLES GREBENSTEIN, both citizens of the United States, and residents, respectively, of the city of New York, Astoria, borough of Queens, in the county of Queens and State of New York, and of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Book-Indexing Machine, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved book indexing machine arranged to permit of quickly and accurately cutting indexing notches into the leaves of a book.

Another object is to enable an operator to cut the desired number of notches into the leaves of a book in a comparatively short time and without undue physical exertion.

With these and other objects in view, the invention consists of certain novel features of construction as hereinafter shown and described and then specifically pointed out in the claim.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of the improved book indexing machine;

Fig. 2 is an enlarged cross section of the same and showing the cutter cutting a notch into a plurality of superimposed leaves of a book; and

Fig. 3 is a perspective view of an indexing notch cut into the leaves of a book by the use of the improved book indexing machine.

The improved book indexing machine is mounted on a suitably constructed stand having a base 10, legs 11 supporting a bed 12 provided at the front with a bracket 13 carrying a pivot 14 engaging a support 15. The support 15 is preferably in the form of a disk of indurated fiber or hard rubber and is adapted to support a plurality of superimposed leaves 16 of a book with the leaves appearing in step form, as plainly indicated in Fig. 2.

A lever 20 is fulcrumed at 21 on a bracket 22 attached to the top of the bed 12, and on the front end of the said lever is secured a cutter 25 by the use of a screw 26 or other suitable fastening device. The cutter 25 is segmental in cross section and its lower portion projects below the bottom of the front end of the lever 20 and this lower portion is provided with a segmental cutting edge 27, the plane of which is approximately parallel to the upper face of the supporting disk 15. When the cutter 25 moves downward into engagement with the superimposed leaves 16 its cutting edge 27 cuts a segmental notch 30 into the superimposed leaves 16 with the cuts in the superimposed leaves gradually increasing in depth and with the cut in the lowermost leaf the deepest, as will be readily understood by reference to Figs. 2 and 3. It will be noticed that this indexing notch 30 cut into the leaves 16 is made at one single operation of the cutter 25, that is, during the descent thereof.

The rear end of the lever 20 is pivotally connected by a link 40 with the rear end of the treadle 41 fulcrumed on a bracket 42 attached to the base 10. The forward end of the treadle 41 is adapted to be engaged by the foot of the operator in charge of the machine, it being understood that when the treadle 41 is pressed downward a swinging motion is given to the lever 20 to move the cutter 25 into cutting engagement with the leaf 16 to cut the notch 30 therein, as above explained. A spring 45 connects the lever 20 with the bed 12 to return the lever 20 to normal inactive position on the operator releasing the treadle 41. It is understood that during this return movement of the lever 20 the cutter 25 is raised a distance above the supporting disk 15 to permit of readily placing a plurality of superimposed leaves in position on the said disk for the cutter 25 to cut an indexing notch 30 therein during the next descent of the said cutter.

It will be noticed that by the arrangement described the operator has both hands free to manipulate properly the leaves 16, with a view to form the indexing notch 30 at the proper place. It will also be noticed that by the arrangement described the operator in charge of the machine can cut a large number of indexing notches into the leaves of a book in a comparatively short time.

The disk support 15 is periodically turned to present a smooth face to the leaves to be supported, it being understood that the face

of the disk is liable to be cut or indented by the knife edge 27 on repeated use of the cutter.

Having thus described our invention, we claim as new and desire to secure by Letters Patent:—

A machine for cutting indexing notches into leaves of a book, comprising a stand provided with a bracket, a disk mounted to turn on the said bracket and forming a support for a plurality of superposed leaves in step fashion, a lever fulcrumed on the said stand and having its forward end above the said disk, a cutter attached to the said front lever end and having a segmental cutting edge at its lower end, the plane of the said cutting edge being approximately parallel to the face of the said disk to cut a notch into the leaves on the downward movement of the cutter, the cuts in the several leaves increasing gradually in depth, the cut in the lowermost leaf being the deepest, a treadle, a link connecting the said treadle with the said lever, and a spring returning the lever and its cutter to normal inoperative position.

WILLIAM FARKAS.
CHARLES GREBENSTEIN.