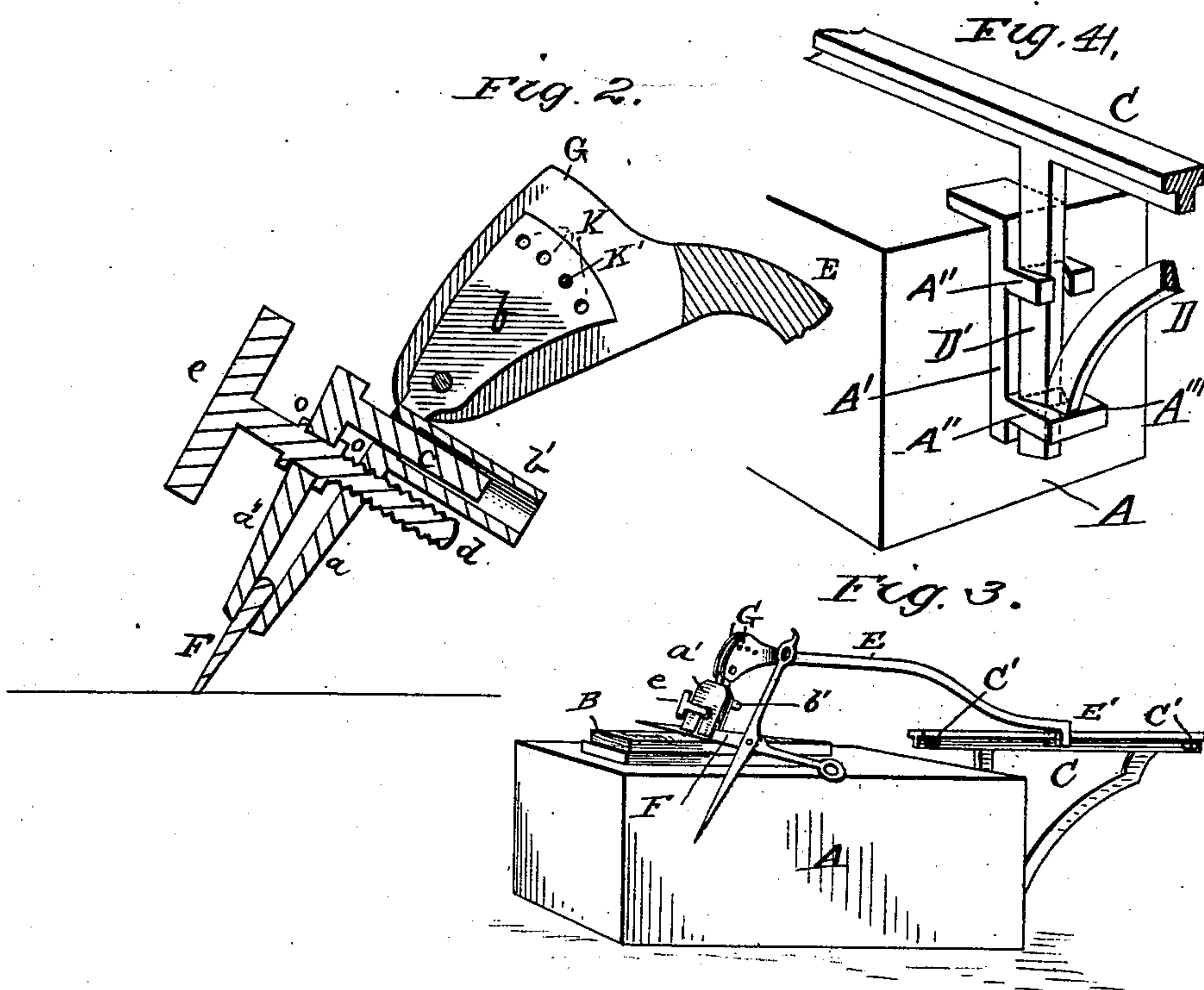
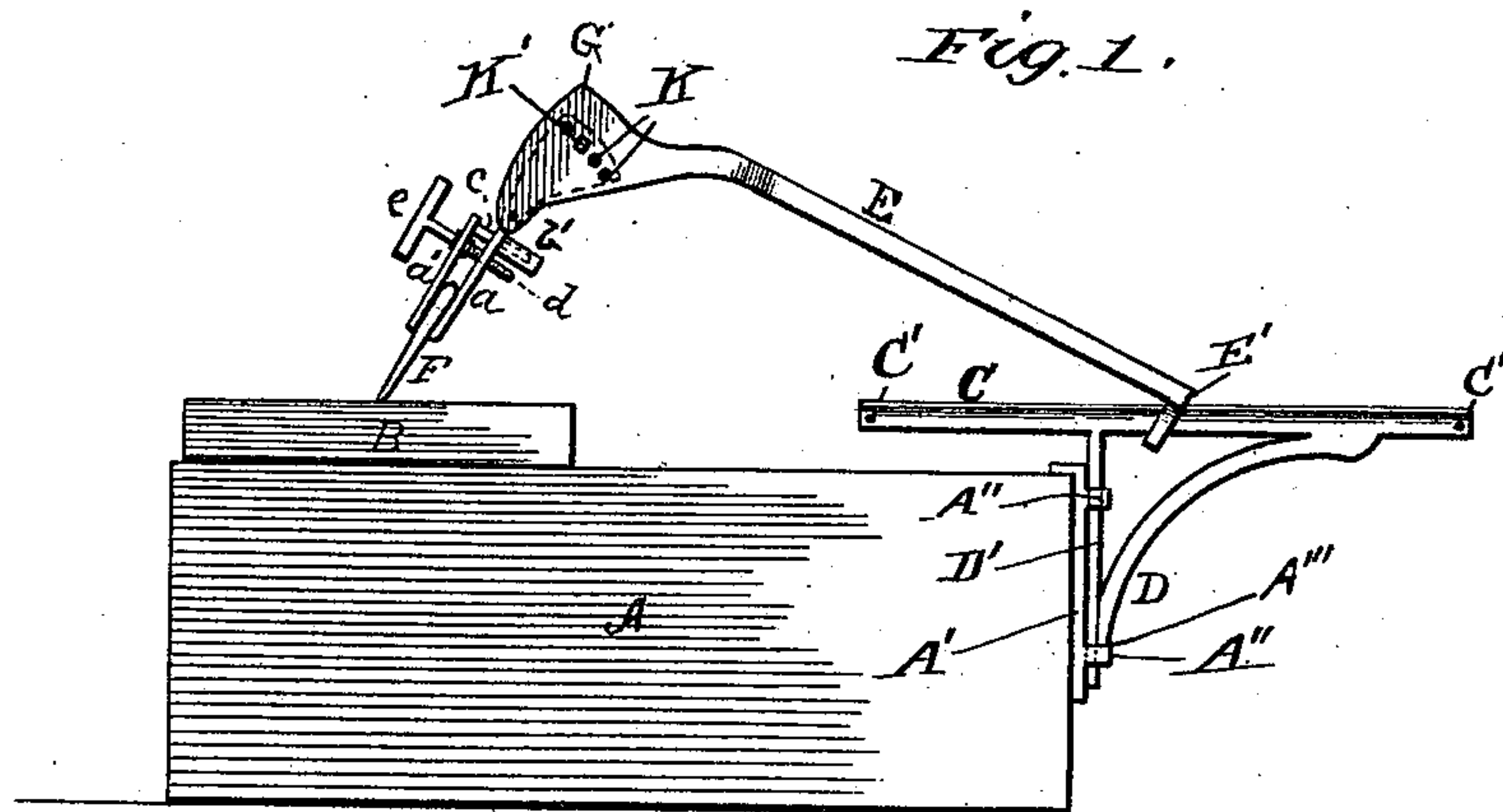


(No Model.)

C. N. SLY.
MACHINE FOR SHARPENING SHEARS.

No. 523,908.

Patented July 31, 1894.



Witnesses.
G. M. Lamasure
Thos. H. Muzzey.

Inventor.
Charles N. Sly
By Alexander D. Davis
Att'y's.

UNITED STATES PATENT OFFICE.

CHARLES N. SLY, OF MEDINA, NEW YORK, ASSIGNOR OF ONE-HALF TO
GEORGE E. WADLEIGH, OF SAME PLACE.

MACHINE FOR SHARPENING SHEARS.

SPECIFICATION forming part of Letters Patent No. 523,908, dated July 31, 1894.

Application filed April 13, 1894. Serial No. 507,492. (No model.)

To all whom it may concern:

Be it known that I, CHARLES N. SLY, a citizen of the United States, residing at Medina, in the county of Orleans and State of New York, have invented certain new and useful Improvements in Machines for Sharpening Shears, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to a new and improved device for sharpening shears and similar articles, and it has for its object to provide a simple, efficient and inexpensive device, by the use of which the shears may be readily sharpened without the necessity of separating the blades thereof.

Another object of the invention is to produce a device which may be easily set up in position for use, and when not required may be readily taken to pieces for convenient packing in a box or other suitable place of storage.

The invention consists in the novel combination and arrangement of parts as will be more fully hereinafter set forth and particularly ascertained by the claims appended.

In the drawings:—Figure 1 is a side elevation of the invention complete. Fig. 2 is a detail sectional view showing the clamping head. Fig. 3 is a perspective view of the device complete. Fig. 4 is a detail perspective view showing the removability of the track supporting bracket.

Referring to the drawings the letter A designates the support for the mechanism; A' a stationary bracket secured to one end thereof, said bracket being formed with outwardly extending lugs A''; D is a removable bracket which is formed with the vertical bar D' by means of which it is supported on the lugs A'', and a horizontal arm or track C which is formed at the upper end of the bar D' and extends longitudinally of the box or support A, and is provided at each of its ends with transverse pins C'.

On the track C the rear depending bifurcated end E' of an arm E slides, said bifurcated end embracing the track as shown. This arm E extends upwardly and forwardly, its forward end being enlarged and bifurcated, said bifurcation forming longitudinal

parallel plates G. Between these plates, at their lower ends, is pivoted a clamping jaw *a* whose clamping portion extends below the plates. An extension *b* is formed on the jaw *a* above its pivot, and said extension projects upwardly between the plates G and is provided with a series of perforations K which register with perforations in the plates G. By means of this construction the jaw *a* may be placed at the desired angle to secure the required bevel on the instrument to be sharpened, and is then locked in this adjusted position by a removable pin or bolt K' which is passed through one of the registering perforations in plates G and the extension *b*.

Carried by jaw *a* is an adjustable clamping jaw *a'* which is formed with a rearwardly extending guide-pin *c* which projects loosely through an opening in the jaw *a* and serves to guide the jaw *a'* as it is adjusted to and from the jaw *a*. A tube *b'* is formed on the rear side of the jaw *a*, and loosely surrounds that portion of the pin *c* which projects through the jaw *a* and serves to shield said pin and aid in guiding it in its movements.

To adjust the jaw *a'* to the jaw *a* a screw *d* is tapped through a threaded opening in the jaw *a* just below the tube *b'*, its unthreaded portion passing through an opening in the jaw *a'*. To cause the jaw *a'* to move in and out with the screw *d* two collars *o o* are secured to the screw *d* one on each side of the jaw *a'* as shown. A thumb piece *e* is formed on the upper outer end of screw *d* by means of which it may be conveniently operated.

The operation is as follows:—The shear blade, shown at F, is clamped between the jaws *a a'*, and said jaws are then adjusted, by means of the extension *b* and its perforations, to secure the required bevel on the shear blade. An oil-stone is then placed in convenient position for the shear-blade to bear on, as shown at B, and the device reciprocated, the bifurcated portion E' of the arm E sliding back and forth on the track C, the pins C' limiting the movement of said arm. The clamping device also may be moved from side to side in order to sharpen the entire blade, the bifurcated lower end E' of arm E bearing on track C and forming a pivot therefor.

When it is desired to pack the device away it is simply necessary to remove the arm E from track C, remove pin K' and turn the clamping jaws into the desired position to fit within the box and then remove the bracket D from the lugs A'' of the stationary bracket A'.

As will be readily understood the device may be varied in form without departing from the scope of the invention, and I desire it understood that I do not limit myself to the exact form shown and described.

Having thus fully described my invention, what I claim is—

1. A device for sharpening shears consisting of a track, an arm slidably mounted on said track, an adjustable clamping jaw pivoted on said arm, an adjustable clamping jaw carried by the pivoted-jaw, a guide pin carried by this clamping-jaw said pin passing through an opening in the pivoted jaw, and a screw rotatably mounted in the adjustable jaw and tapped through the pivoted jaw, substantially as described.

2. A device for sharpening shears consisting of a horizontal track, an arm E formed at one of its ends with the bifurcated end E' adapted to embrace the track and slide thereon and at its other end with a plate G, a pivoted clamping-jaw mounted on said plate, means for adjusting said pivoted jaw to various angles and for locking it in its adjusted posi-

tion, and an adjustable clamping-jaw carried by the pivoted jaw, and means for adjusting this latter clamping jaw, substantially as described.

3. A device for sharpening shears consisting of a horizontal removable track provided with stop pins at its ends, an arm E formed with the end E' and the enlarged parallel plates G, said arm being mounted to slide on the track and to be removable therefrom, a jaw α pivoted between the plates G and formed with the extension b which is formed with a series of perforations which register with a series of perforations in the plates G, a removable pin adapted to be passed through these perforations, an adjustable clamping jaw carried by the pivoted jaw, a guide pin carried by the adjustable jaw, said pin passing through a perforation in the pivoted jaw, a tube formed on the pivoted jaw and extending rearwardly and adapted to receive the guide pin, and a screw rotatably mounted in the adjustable jaw and tapped through the pivoted jaw, substantially as described and for the purpose set forth.

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

CHARLES N. SLY.

Witnesses:

STANLEY E. FILKINS,
HARRY F. IVES.