

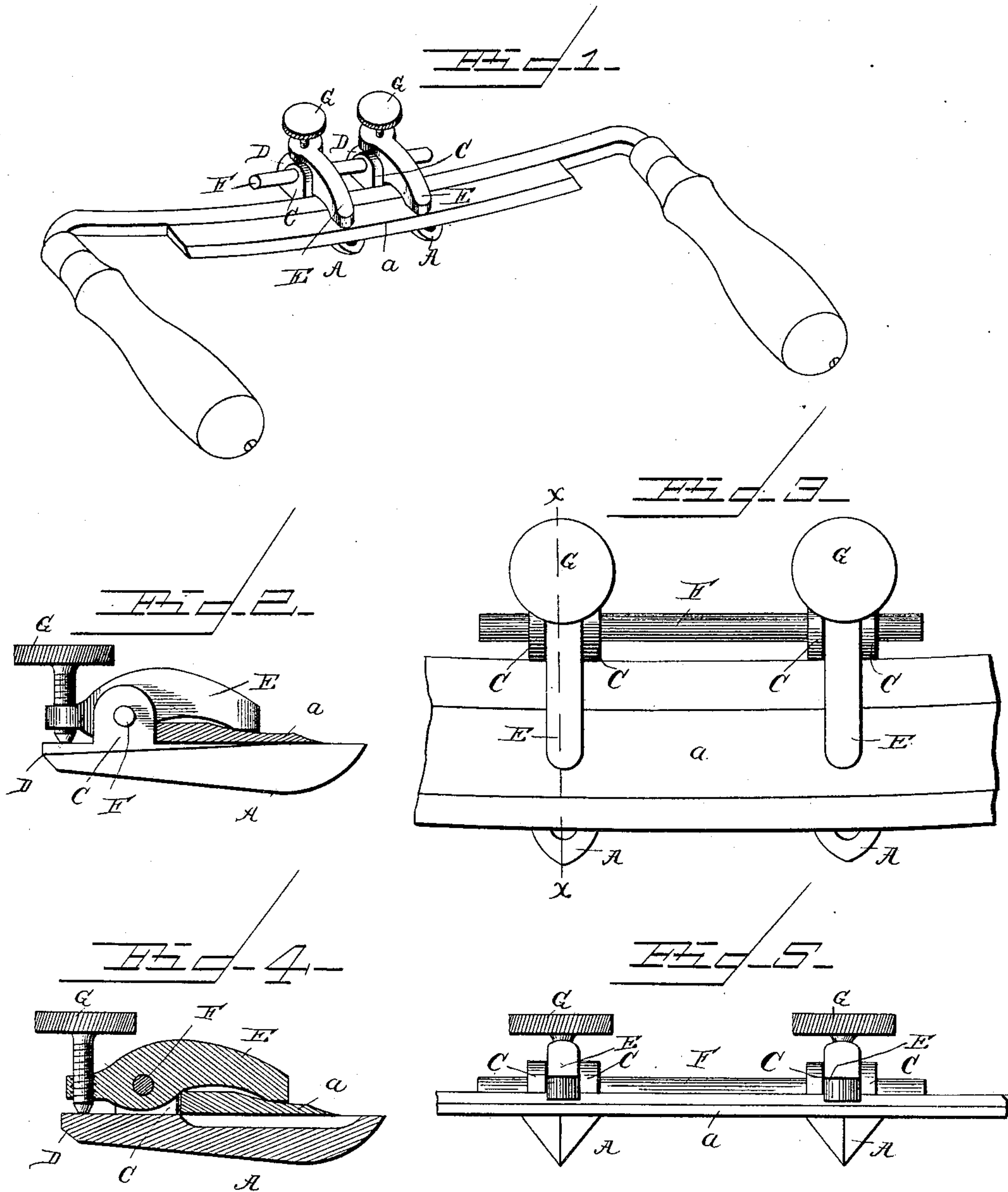
(No Model.)

H. H. PERKINS.

ADJUSTABLE CHAMFER GAGE FOR DRAWING KNIVES.

No. 388,148.

Patented Aug. 21, 1888.



Witnesses.
Henry G. Dieterich,
J. W. Garner.

Inventor,
Hazen H. Perkins,

By his Attorneys.

C. A. Shaw & Co.

UNITED STATES PATENT OFFICE.

HAZEN H. PERKINS, OF KEWANEE, ILLINOIS.

ADJUSTABLE CHAMFER-GAGE FOR DRAWING-KNIVES.

SPECIFICATION forming part of Letters Patent No. 388,148, dated August 21, 1888.

Application filed April 3, 1888. Serial No. 269,418. (No model.)

To all whom it may concern:

Be it known that I, HAZEN H. PERKINS, a citizen of the United States, residing at Kewanee, in the county of Henry and State of Illinois, have invented a new and useful Improvement in Adjustable Chamfer-Gages for Drawing-Knives, of which the following is a specification.

My invention relates to an improvement in adjustable chamfer-gages for drawing-knives; and it consists in the peculiar construction and combination of devices, that will be more fully set forth hereinafter, and particularly pointed out in the claims.

The object of my invention is to provide an improved gage which is adapted to be attached to the blade of a drawing-knife for the purpose of enabling a uniform chamfer or bevel of any desired width to be made; and this object I accomplish by the device illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a chamfer-gage embodying my improvements, showing the same attached to a drawing-knife. Fig. 2 is a side elevation of my improved chamfer-gage, the blade of the drawing-knife being represented in transverse section. Fig. 3 is a top plan view of my improved chamfer-gage, showing the same attached to the blade of the drawing-knife. Fig. 4 is a sectional view taken on the line *x x* of Fig. 3. Fig. 5 is a front elevation of my improved chamfer-gage, showing the same attached to the blade of a drawing-knife.

A represents a pair of shoes, which have their lower sides beveled in opposite directions at an angle of about forty-five degrees. The front ends of the said shoes are rounded to a point, as shown, and the lower edges of the said front ends of the shoes curved upward, thereby enabling the same to slide freely on the material which is being chamfered. On the upper sides of the said shoes are pairs of vertical ears C, and the rear ends of the said shoes project outward beyond the said ears, as at D. The upper sides of the front projecting portions of the shoes are plane and are adapted to fit snugly against the plane lower side of the blade *a* of the drawing-knife.

E represents a pair of clamping-arms, which are provided at a suitable distance from their

rear ends with transverse openings which are adapted to align with similar openings in the pairs of ears, and said clamping-arms are inserted between the said ears, and a longitudinal rod, F, of suitable length is passed through the said aligned openings of the ears and of the clamping-arms, the said rod serving to connect the shoes together, and also forming the pivots for the clamping-arms, as will be readily seen. The under sides of the front projecting portions of the clamping-arms are concave and adapted to the contour of the upper side of the blades of the drawing-knife, and the vertical set-screws G are passed through and engaged with threaded openings in the rear projecting ends of the said clamping-arms and impinge against the upper sides of the rearward-projecting portions F D of the shoes, and thereby adapting the blade of the drawing-knife to be clamped between the clamping-arms and the shoes at any desired degree of compression.

By loosening the set-screws the shoes may be moved toward or from each other on the rod F, according to the width of the bevel or chamfer to be made.

The operation of my invention will be very readily understood. The inner sides of the shoes bear against two sides of the piece of wood or material to be beveled or chamfered, and the said shoes serve to guide the blade of the drawing-knife on the edge of the said material or piece of wood, so as to cause the said drawing-knife to cut a chamfer or bevel of uniform depth throughout its entire length.

A chamfer-gage thus constructed is extremely cheap and simple, is strong and durable, is adapted to be readily attached to a drawing-knife and detached therefrom, and may be readily adjusted to any desired width.

Having thus described my invention, I claim—

1. The combination of the connected laterally-adjustable shoes, the clamping-arms E, pivoted thereon, and the set-screws to operate said clamping-arms, substantially as described.

2. The combination of the shoes having the ears C, the clamping-arms passing between said ears, the rod F, passing through aligned openings in the ears C and in the clamping-

arms, and thereby serving to connect the shoes together and forming pivots for the clamping-arms, and the set-screws in the rear ends of the clamping arms, to operate the same, substantially as described.

5 3. The combination of the shoes B, having the ears C and the rearward-extending portions D beyond said ears, the clamping arms E, passing between said ears, the rod F, extending through aligned openings in the ears and in the clamping-arms, and the set-screws G, engaging threaded openings in the rear ends

of the clamping-arms and adapted to bear upon the rearward-extending portions D of the shoes, for the purpose set forth, substantially as described. 15

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

HAZEN H. PERKINS.

Witnesses:

JOHN BECKER,
CHAS. R. CLAPP.