N. F. ANDERSON.

SHEAR GAGE.

APPLICATION FILED APR. 18, 1912.

1,049,326. Patented Jan. 7, 1913.

FIG. 1

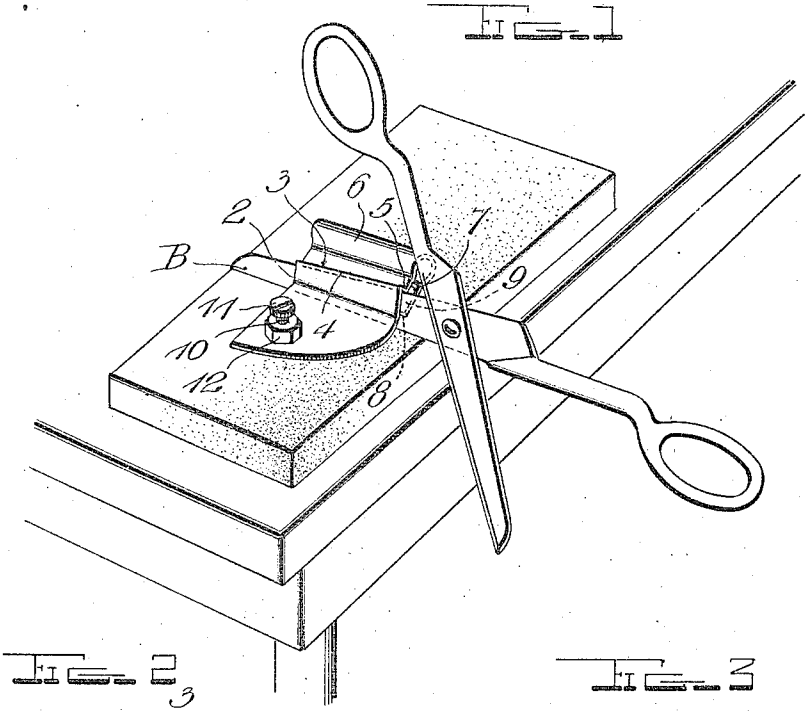


FIG. 2

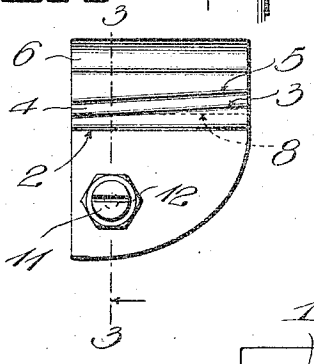


FIG. 3

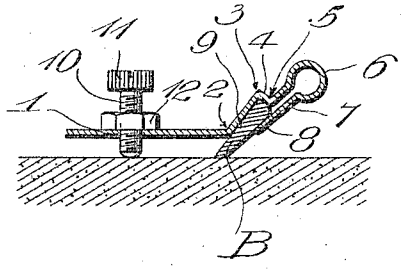
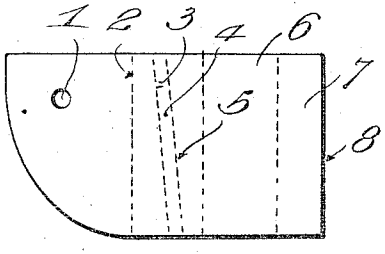


FIG. 4



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UNITED STATES PATENT OFFICE.

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SHEAR-GAGE.

1,049,326. Specification of Letters Patent. Patented Jan. 7, 1913.

Application filed April 18, 1912. Serial No. 691,576.

To all whom it may concern:

Be it known that I, NELSON F. ANDERSON, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in Shear-Gages; and I do 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.

This invention relates to grinding and polishing, and more especially to cutlery scourers; and the object of the same is to produce a gage which may be slipped onto one blade of a pair of scissors or shears, so that the same may be caused to stand at any desired angle to the grindstone, hone, strop, or other grinding or abrading surface. This object is carried out by the construction hereinafter more fully described and claimed, and as shown in the drawings wherein—

Figure 1 is a perspective view of this invention, showing it applied to the blade of a pair of scissors or shears, and the whole being drawn across a hone. Fig. 2 is a plan view of the shear gage alone, and Fig. 3 is a section on the line 3—3 of Fig. 2. Fig. 4 is a plan view of the blank from which this gage is made.

In carrying out my invention, the body of the gage is stamped from a piece of resilient sheet metal into a blank of the form shown in Fig. 4, pierced with a hole at the point 1. The blank is then bent obliquely upward on a transverse line indicated at 2, then outward at right angles on the line 3 to form a narrow shoulder 4 which in use stands over the rear edge of the shear blade B, thence bent again upward in an oblique angle at the line 5, curved into a roll 6, and then carried down in a lip 7 whose edge 8 when applied to the blade B rests against the back thereof as shown, and holds the face of the blade against what might be called the "jaw" 9 which is that portion of the plate between the fold lines 2 and 3 and which tapers slightly as shown so as to conform with the shape of the blade B. The hole 1 is threaded, and downward through it is passed a set screw 10 whose head 11 is milled, and on the shank of the screw is a jam nut 12 which may be run down against the plate to hold the screw in adjusted position.

In use the gage is slipped onto the blade as shown in the drawings, the jaw 9 lying against the flat face of the blade, the shoulder 4 resting against the upper edge thereof, and the lip 7 bearing against the rear of the blade with some considerable force due to the spring action of the roll 6. The beveled edge of the blade is then placed against the stone or other abrading surface, and the set screw adjusted so that when its tip touches the surface the latter will contact accurately with the bevel of the blade. Thereafter the grinding or honing is done in the ordinary manner, and from time to time the gage is slipped along on the blade so as to stand opposite that part thereof which is being ground.

By preference the device will be made of steel, finished in nickle or otherwise to suit the taste, and the size and exact details of parts are immaterial.

What is claimed as new is:

1. The herein described shear gage, the same comprising a metal plate bent upward on a transverse line into a jaw which is wider at one edge of the plate than at the other and adapted to stand against the face of the blade, thence bent outward into a shoulder adapted to rest against the rear edge of the blade, thence carried upward into a spring roll, and thence carried downward into a lip adapted to lie against the back of the blade; and means for holding the lower edge of said jaw at a given distance above the abrading surface.

2. The herein described shear gage, the same comprising a metal plate bent upward into a jaw standing oblique to the body of the plate and adapted to lie against the face of the blade, thence continued into a spring roll, and continued from the roll into a lip adapted to lie against the back of the blade, said body being pierced with a threaded hole; a set screw passing downward through said hole, and a jam nut on the set screw.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

NELSON F. ANDERSON.

Witnesses:
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C. H. BARLOW.