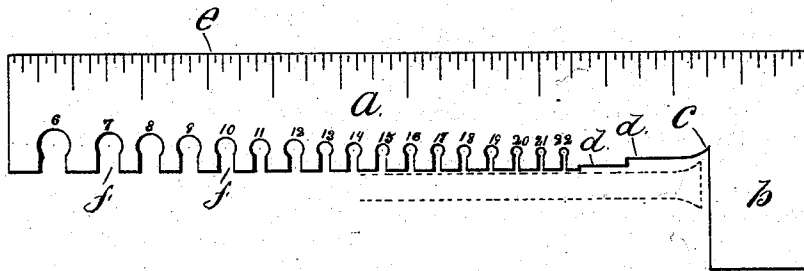


(No Model.)

G. S. BLACK.
SAWYER'S GAGE.

No. 292,465.

Patented Jan. 29, 1884.



WITNESSES:

J. J. Wheat,
E. D. Abbott

INVENTOR:

George S. Black,
By H. P. Hood
Atty.

UNITED STATES PATENT OFFICE.

GEORGE S. BLACK, OF INDIANAPOLIS, INDIANA, ASSIGNOR OF ONE-HALF TO
ELIAS C. ATKINS, OF SAME PLACE.

SAWYER'S GAGE.

SPECIFICATION forming part of Letters Patent No. 292,465, dated January 29, 1884.

Application filed October 2, 1883. (No model.)

To all whom it may concern:

Be it known that I, GEORGE S. BLACK, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented a new and useful Improved Sawyer's Gage, of which the following is a specification.

The object of my invention is to provide an improved gage for the use of sawyers in dressing saw-teeth, by which the thickness of the saw-plate, the width of the cutting-edges of the teeth, and the amount of set may be ascertained and the shape of the cutting-edge determined.

The accompanying drawing illustrates my invention.

The figure is a plan of my improved gage, a saw-tooth being represented in dotted lines.

The gage is formed of a thin plate of metal, its principal portion, *a*, being a straight piece with parallel sides, having at one end a short limb, *b*, projecting from one edge at a right angle thereto. The right angle thus formed differs from an ordinary square, in that it is particularly adapted for use in determining whether the cutting-edge of the saw-tooth forms a right angle with the sides of the saw, by having the inner corner cut away, forming a notch, as at *c*, so as to permit the edge of *a* to lie against the side of the saw-plate without

striking the outer corner of the set or swaged tooth.

For the purpose of gaging the distance which the set saw-tooth projects beyond the plane of the saw-plate, I form in the edge of *a* a series of depressed steps, *d d*, cut away to different depths below the general line of said edge.

For the purpose of measuring the entire width of the cutting-edge of the tooth, the outer edge of *a* is marked with graduations *e*, showing inches and parts of an inch.

For the purpose of gaging the thickness of the saw-plate, the inner edge of *a* is provided with a series of notches, *f*. Said notches are of different width, corresponding to standard thicknesses of saw-plate, and each is marked according to a recognized standard.

I claim as my invention—

1. A right-angle gage having the notch *c*, for the purpose specified.

2. A right-angle gage having a series of depressed steps, *d*, substantially as and for the purpose specified.

3. A sawyer's gage, consisting of a right-angle gage having notch *c*, depressed steps *d*, graduations *e*, and notches *f*, all combined substantially as specified.

GEORGE S. BLACK.

Witnesses:

H. P. HOOD,
E. O. ABBOTT.