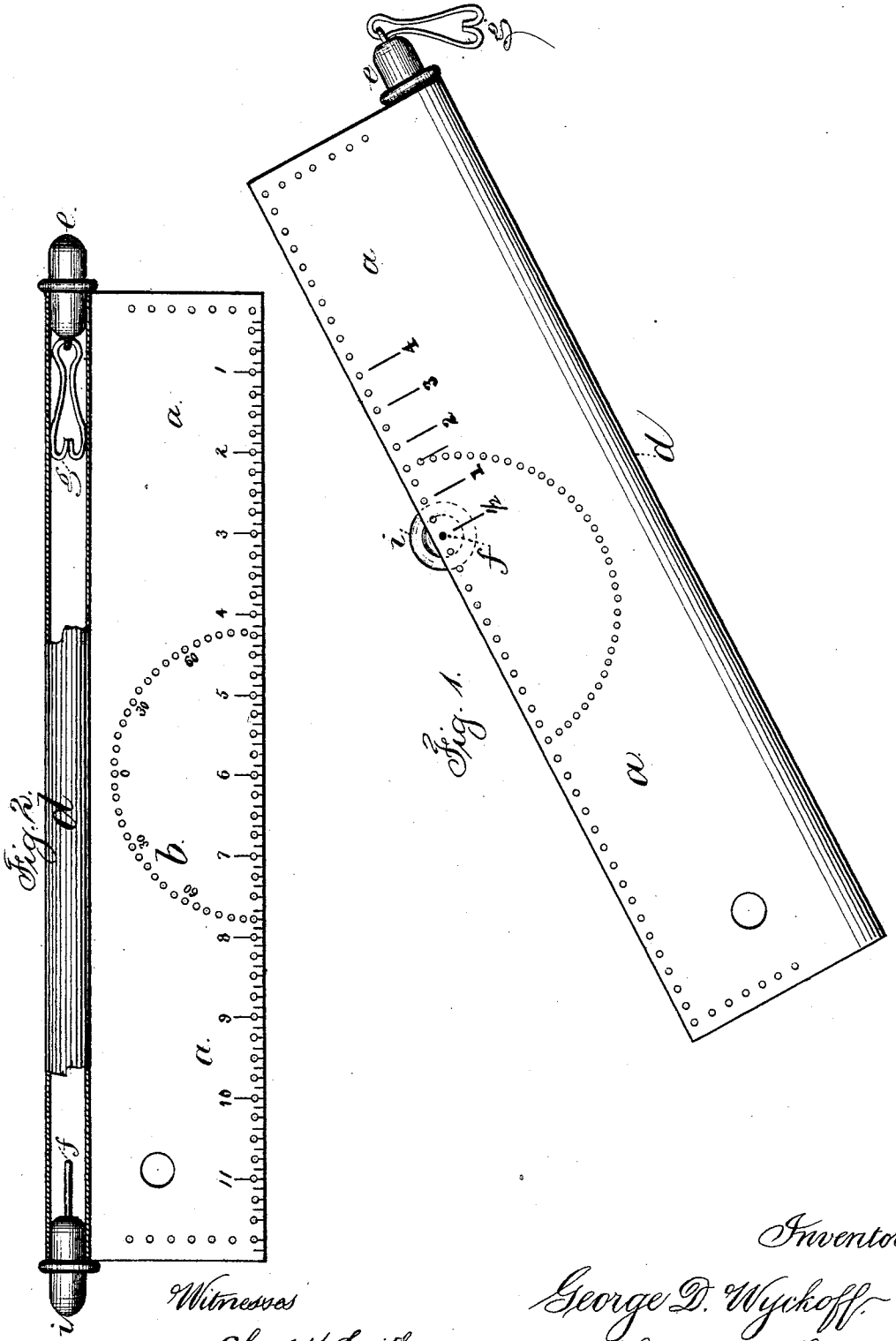
G. D. WYCKOFF.

COMBINED RULER AND LETTER SCALE.

No. 193,744. Patented July 31, 1877.



Witnesses

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Inventor.

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GEORGE D. WYCKOFF, OF INDIANAPOLIS, INDIANA, ASSIGNOR TO JOHN A. GREEN, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN COMBINED RULER AND LETTER-SCALES.

Specification forming part of Letters Patent No. **193,744**, dated July 31, 1877; application filed January 2, 1877.

To all whom it may concern:

Be it known that I, GEORGE D. WYCKOFF, of Indianapolis, in the county of Marion and State of Indiana, have invented a Combined Ruler and Letter-Scale, of which the following is a specification:

In Letters Patent No. 181,236, granted to me, a rule and protractor combined is set forth.

My present invention relates to an improvement in which the rule is adapted to use as a letter-scale.

In the drawing, Figure 1 is an elevation of the rule in use as a scale. Fig. 2 is a plan of the same, partially in section.

The rule *a* is preferably made of sheet metal, with divisions into inches and fractions thereof, and with the protractor portion *b* substantially as in the aforesaid patent.

There is also a hollow cylinder, *d*, at the edge of the rule, as in said patent; but the plugs *e* and *i* at the ends contain, one a fulcrum-wire, *f*, and the other a swinging spring letter-clip, *g*. These plugs, when inserted, form ornamental ends to the cylinder *d*; but when the plug *e* is reversed the letter-clip hangs from the end, and a letter can be held thereby.

The plug *i*, with its fulcrum-wire *f*, is used to suspend the rule and allow of its use as a letter-scale. When the letter has been clasped by the spring-clip the fulcrum-pin is applied through one of the holes in the rule at the proper place to allow the rule to hang level, and the marks upon the rule at these points indicate ounces and fractions; hence the weight of the letter is easily ascertained. When not required as a scale, the plugs are inserted at the ends of the cylinder *d*, as seen in Fig. 2.

I claim as my invention—

The ruler made with a hollow cylinder at one edge, in combination with a reversible plug and letter-holder, a plug and fulcrum-pin, and perforations in the ruler, forming the divisions of the letter-scale, substantially as set forth.

Signed by me this 11th day of December, 1876.

GEO. D. WYCKOFF.

Witnesses:

GEO. T. PINCKNEY,

CHAS. H. SMITH.