

L. R. HERMAN.
STRAIGHT EDGE.

APPLICATION FILED JUNE 28, 1909.

950,696.

Patented Mar. 1, 1910.

Fig. 1

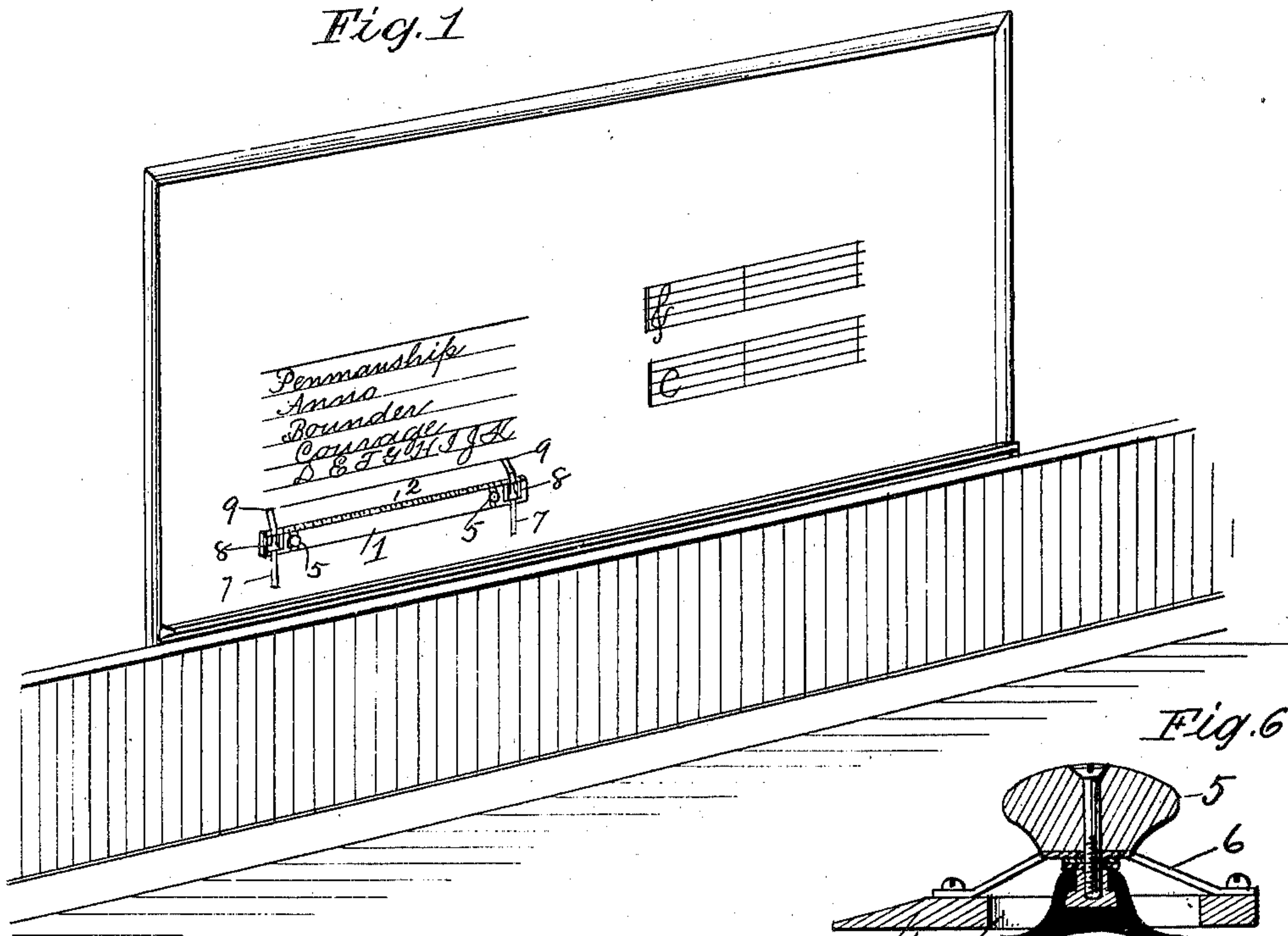


Fig. 6

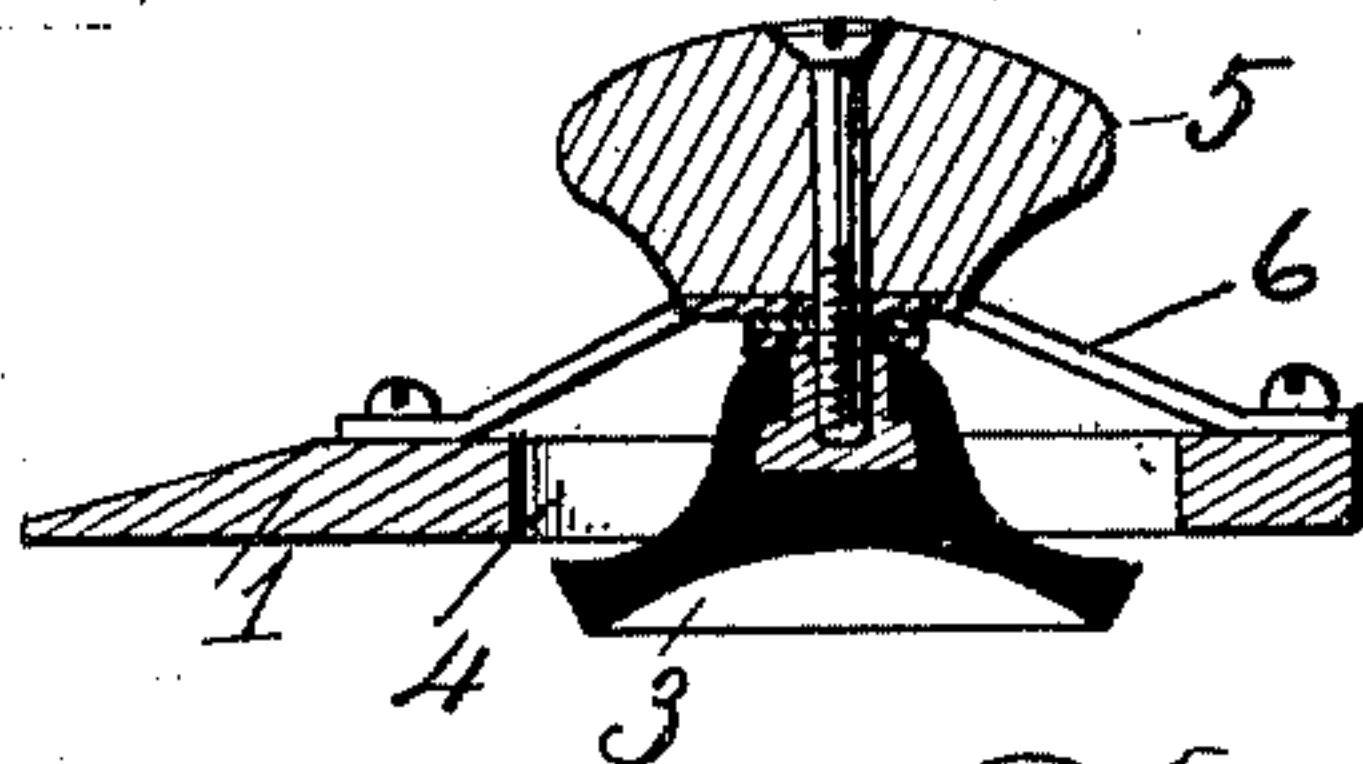


Fig. 2

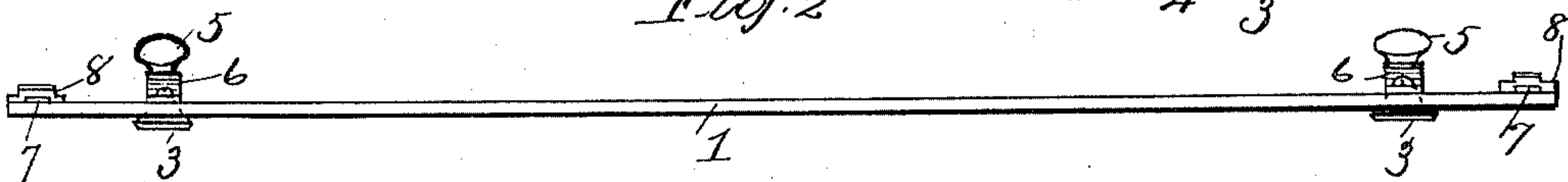


Fig. 3

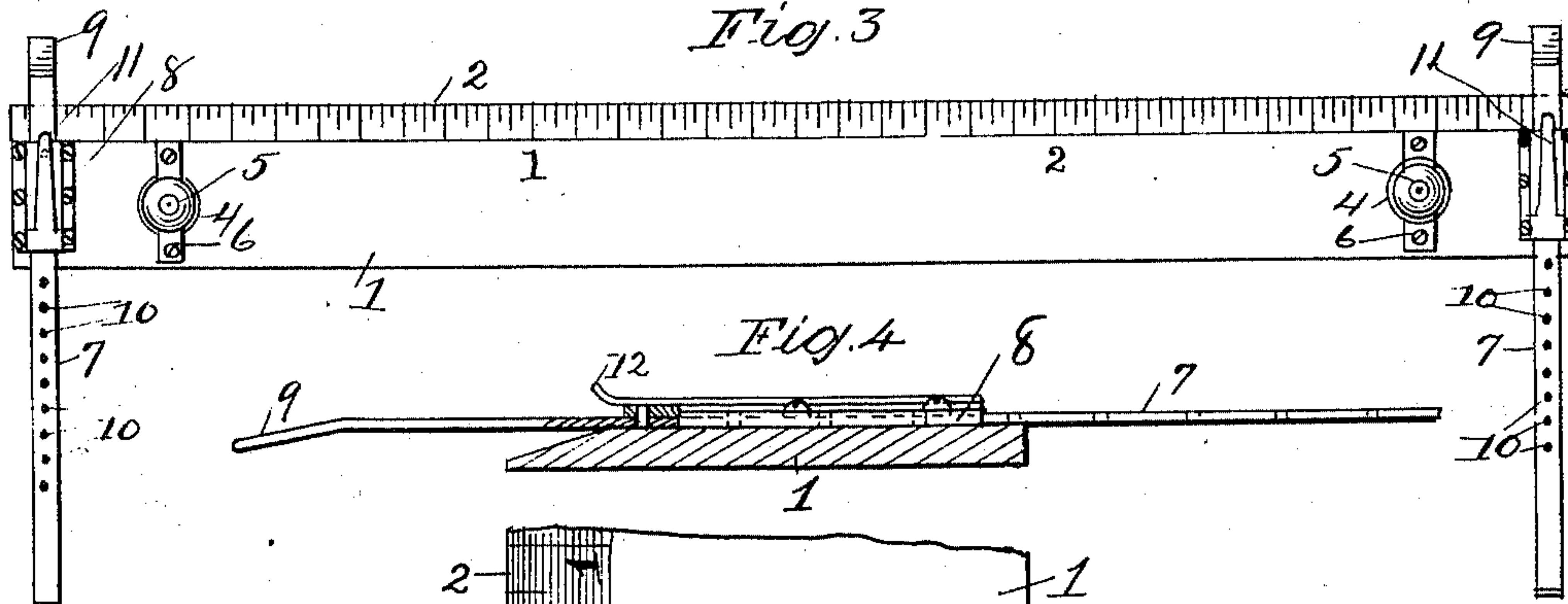


Fig. 4

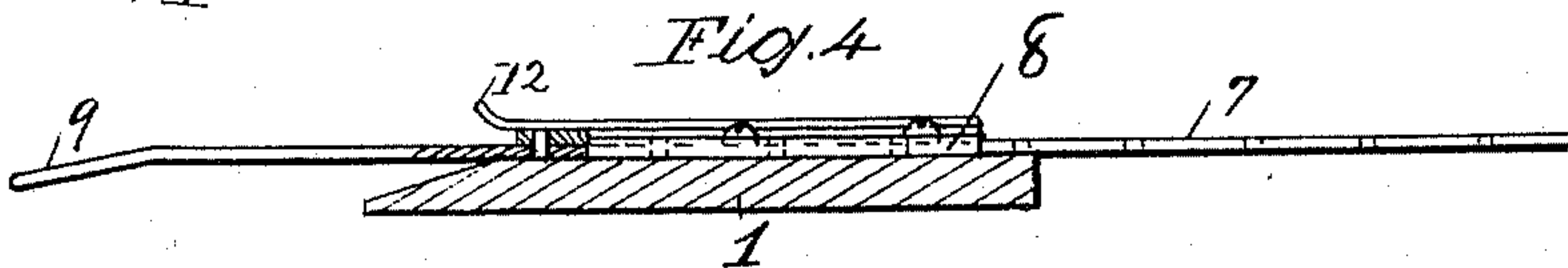
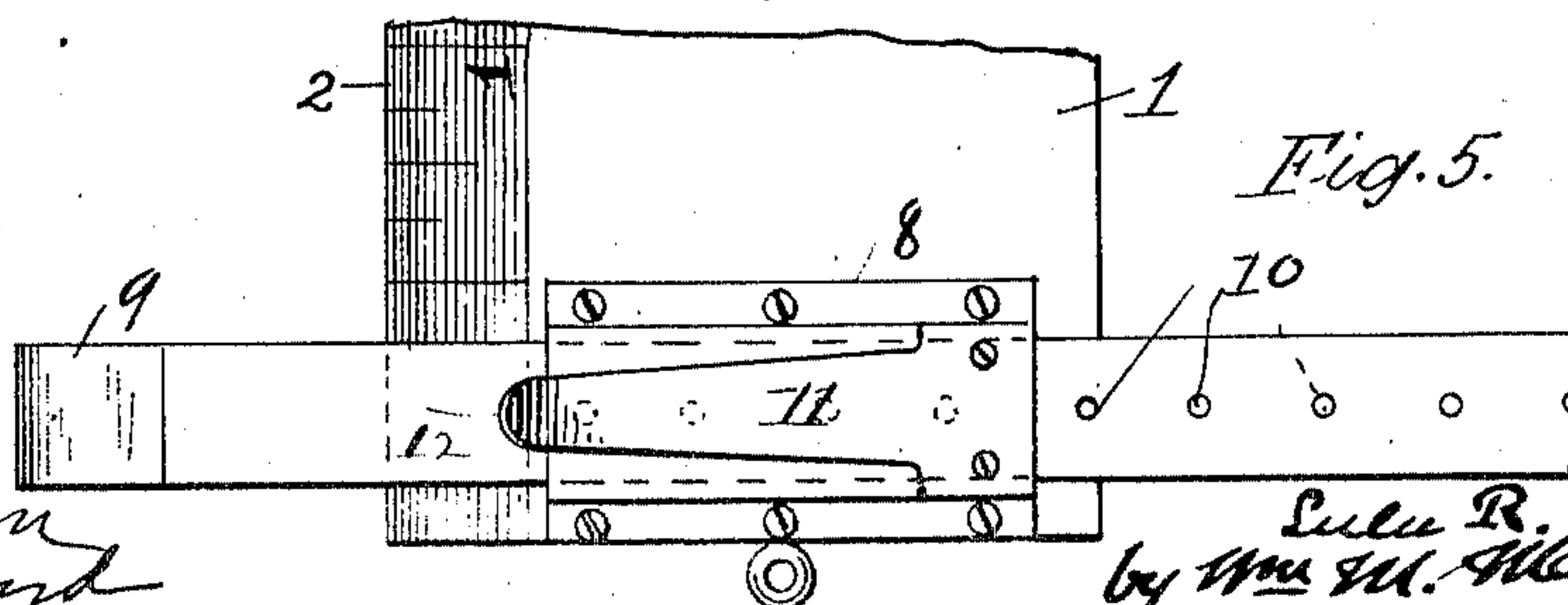


Fig. 5



Witnesses
L. R. Herman
H. C. Boyd

Inventor
Lulu R. Herman
by Wm. H. Monroe
Attorney

UNITED STATES PATENT OFFICE.

LULU R. HERMAN, OF CLEVELAND, OHIO.

STRAIGHT-EDGE.

950,696.

Specification of Letters Patent.

Patented Mar. 1, 1910.

Application filed June 28, 1909. Serial No. 504,650.

To all whom it may concern:

Be it known that I, LULU R. HERMAN, a citizen of the United States, and resident of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Straight-Edges, of which I hereby declare the following to be a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same.

The objects of the invention are to provide a simple and convenient form of straight edge for use in drawing parallel lines upon a wall or other plane surface, as upon a black board for demonstration purposes. The straight edge is further designed to be attachable temporarily to the said wall surface so that it will remain in position without handling while a straight line is being drawn and is also adapted to be readily detached therefrom, and to be adjusted so that a succession of parallel lines can be drawn at any desired distance apart with perfect accuracy.

The invention comprises, the ruler or straight edge, provided with compressible suction cups, by means of which the device will adhere to the wall surface by atmospheric pressure.

Other features are gage strips provided with spaced openings and detents or locking devices arranged to engage with the openings, so as to give accuracy to the work of positioning the parallel lines.

The invention is illustrated in the accompanying drawings, hereinafter more fully described, and specifically pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view of a black board having a smooth surface to which the straight edge is attached; Fig. 2 is an edge view of the straight edge; Fig. 3 is a plan view thereof; Fig. 4 is a transverse section of the straight edge, showing a portion of one of the gages broken away to illustrate the spring detent. Fig. 5 is a plan view (enlarged) of one end of the straight edge, showing the gage and its adjustment; and Fig. 6 is a transverse section through one of the suction cups.

In these views 1 is the straight edge having a flat body portion preferably beveled

and graduated at one side at 2 for convenience in taking measurements.

3, 3 are compressible suction cups formed of rubber, by means of which the straight edge is secured to a blackboard. This is accomplished by placing them in openings 4, 4 in which the edges are inclosed when the cups are compressed; 5, 5 are knobs by means of which the straight edge can be readily handled, and for convenience they are attached to the same supports 6, 6 to which the suction cups are secured. Each cup is compressed by pressure upon its corresponding knob, and a slight pull upon the knob is sufficient to detach the same.

The gages 7, 7 are shown to comprise transversely placed strips or members slidably movable in guides 8, 8. Their tips 9, 9 are preferably bent over so as to touch the wall or board, and each strip is provided with spaced recesses or perforations 10, 10 into which the spring actuated detents 11, 11 will fall. The spring detents or detent members are readily raised at their tips 12, 12 for adjustment of each gage.

Many modifications in form and structure can be made in the details of the device without departing from the scope of the claims.

The device is believed to provide improved capabilities and improvements in practicability and efficiency in the art.

Having described the invention what I claim as new and desire to secure by Letters Patent is:—

1. In a straight edge in combination with a flat body portion, said body portion provided with spaced openings, supports crossing said openings, a handle on each support, and a suction cup in each opening secured to one of said supports.

2. In a straight edge, in combination with the flat body portion, compressible suction cups attached thereto, a support for each cup on said body portion, said body portion provided with openings in which said cups are adapted to be compressed.

In testimony whereof, I hereunto set my hand this 25th day of June 1909.

LULU R. HERMAN.

In presence of—

WM. M. MONROE,
H. C. BOYD.