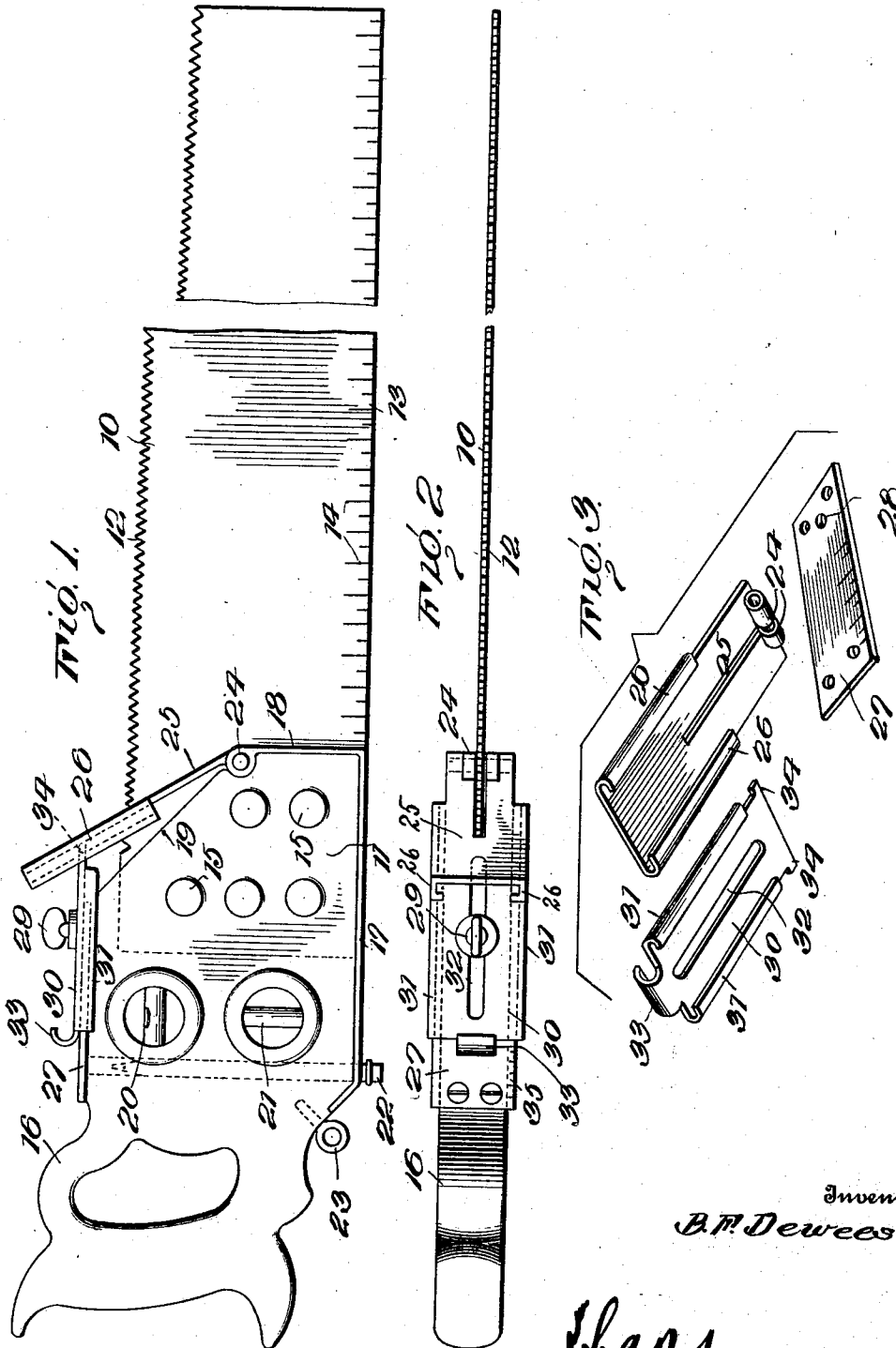


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 COMBINED LEVELING, PLUMBING, AND GAGING IMPLEMENT.
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1,217,286.

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To all whom it may concern:

Be it known that I, BENJAMIN F. DEWEES, a citizen of the United States, residing at Logan, in the county of Logan and State of West Virginia, have invented certain new and useful Improvements in Combined Leveling, Plumbing, and Gaging Implements, of which the following is a specification.

This invention relates to improvements in implements which may be employed as a gage, a level, or a plumbing implement without structural change, or without disconnecting any of the parts, and has for one of its objects to improve the construction and increase the efficiency and utility of devices of this character.

With these and other objects in view, the invention consists in certain novel features of construction as hereafter shown and described and then specifically pointed out in the claims.

The improved device is preferably attached to the handle of a saw with the back or upper edge of the saw arranged as a straight edge, and for the purpose of illustration is shown thus applied; and in the drawings illustrative of the preferred embodiment of the invention;

Figure 1 is a side elevation;
Fig. 2 is a plan view of the parts arranged as in Fig. 1;

Fig. 3 represents the parts of the device which form the gage separated and in perspective.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The improved device comprises in general a blade or body 10 and a head, represented conventionally at 11. The portion 10 is shown in the form of a saw blade with the teeth 12 in one edge and with the other edge 13 in the form of a straightedge and preferably with graduations indicated at 14 representing inches and fractions of inches. The head portion 11 is extended laterally at each side of the blade and is slotted to receive the blade which is secured therein in the usual manner by screws 15. The body 11 is preferably formed at one end into a hand grip 16 of the usual construction. The improved device may be thus employed as an ordinary hand saw, as the attachments do not interfere with such use of the same.

The head 11 is preferably provided with a metal binder member 17 whose outer edge is in alinement with the straightedge 13 and continues the same as illustrated in Fig. 1. At its inner end the head 11 extends at right angles to the straightedge portion 13 of the blade and is provided with wear strips, one of which is represented at 18 and preferably integral with the strip 17. The right angled portion 18 extends about midway of the blade 10 and the remainder of the inner end of the blade is cut-off at an angle, preferably about 45°, as represented at 19. Spirit bulbs 20—21 are located within the head 11, one of the bulbs being arranged in parallel relation to the straightedge 13 and the strip 17 and the other bulb arranged in parallel relation to the right angled portion 18. By this means it will be obvious that the straight edge portion 13 and the strip 17 may be employed in coaction with the bulb 20 to produce a leveling instrument and likewise employed as a plumbing implement in coaction with the bulb 21. A pencil indicated at 22 is preferably inserted in a suitable aperture in the head 11, while an eye 23 is attached to the head to receive a plumb line having a plumb bob at one end, the latter not being shown.

Pivoted at 24 to the head 11 is a gage device, represented as a whole at 25 and having guide ribs 26 extending for a portion of its length, the guide ribs opening inwardly or toward each other, as illustrated in Fig. 3. Attached to the edge of the head 11 opposite to the strip 17 is a plate 27 somewhat wider than the thickness of the head 11, so that the edges of the plate 27 overhang the sides of the head, as illustrated in Fig. 2. The plate 27 is provided with a threaded aperture 28 to receive a threaded clamping member 29. Bearing upon the plate 27 is a holding member 30 having guide ribs 31 at its edges to slidably engage the overhanging edges of the plate 27. The member 30 is provided with a longitudinal slot 32 through which the stud 29 extends and is likewise provided with a thumb grip 33 at one end. At the opposite end the member 30 is provided with lateral lugs 34 which engage in the guide ways 26 of the member 25. The space between the confronting edges of the guide-ways 26 is sufficient to enable them to bear over the opposite side faces of the head 11 when the member 25 is disposed in

its inner position or in contact with the angular face 19 of the head. The face 19 may be of any required angle, but will not generally be less than 45° , as shown.

5 By this arrangement it will be obvious that when the clamp device 29 is loosened the holding member 30 may be moved toward the hand grip portion 16 and carry the gage member 25 with it through the coaction of the lugs 34 and the guide-ways 26, and thus dispose the body of the gage member in contact with the angular face 19 of the head. By this means a gage which extends at an angle of 45° to the straight edge portion 13 of the device is produced and which may be employed in the ordinary manner as a bevel implement. It will also be obvious that the gage member 25 may be adjusted to any required angle by simply releasing the clamp device 29 and moving the body member 30 along the plate 27, the latter being provided with graduations, indicated at 35 to enable the operator to accurately adjust the angle of the gage member.

25 The improved implement may be employed by mechanics especially carpenters or joiners, either as a leveling implement, a plumbing implement, a measure, an ordinary try-square, or as a bevel, without structural change or the detachment of any of the parts.

Having thus described the invention, what is claimed as new is:—

35 1. A device of the class described comprising a blade having one straight edge, a head connected to the blade and enlarged laterally with one edge in longitudinal alinement with the straight edge of the blade and another edge at right angles to the blade, a gage member swingingly connected to the right angled portion of the head, a holding member slidable upon the

head and movably connected to the gage member, and clamping means carried by the head and engaging the holding member. 45

2. A device of the class described comprising a blade having one straight edge, a head connected to the blade and enlarged laterally with one edge in longitudinal alinement with the straight edge of the blade and another edge at right angles to the blade, a gage member swingingly connected to the right angled portion of the head and having longitudinal guide devices, a holding member slidable upon the head and having lugs extending into said guide devices, and clamping means carried by the head and engaging the holding member. 50 55

3. A device of the class described comprising a blade having one straight edge, a head connected to the blade and enlarged laterally with one edge in longitudinal alinement with the straight edge of the blade, a gage member swingingly connected to the head, a holding member slidable relative to the head and movably connected to the gage member, said holding member having a longitudinally directed slot, and a clamp member carried by said head and extending through said slot. 60 65 70

4. A device of the class described comprising a blade having one straight edge, a head connected to the blade and enlarged laterally with one edge in longitudinal alinement with the straight edge of the blade, a gage member swinging from the head, a plate carried by the head, a holding member having guide devices engaging said plate and movably coupled to said gage member, and clamping means operating to retain said holding member in position relative to said plate. 75 80

In testimony whereof, I affix my signature.

BENJAMIN F. DEWEES. [L. S.]