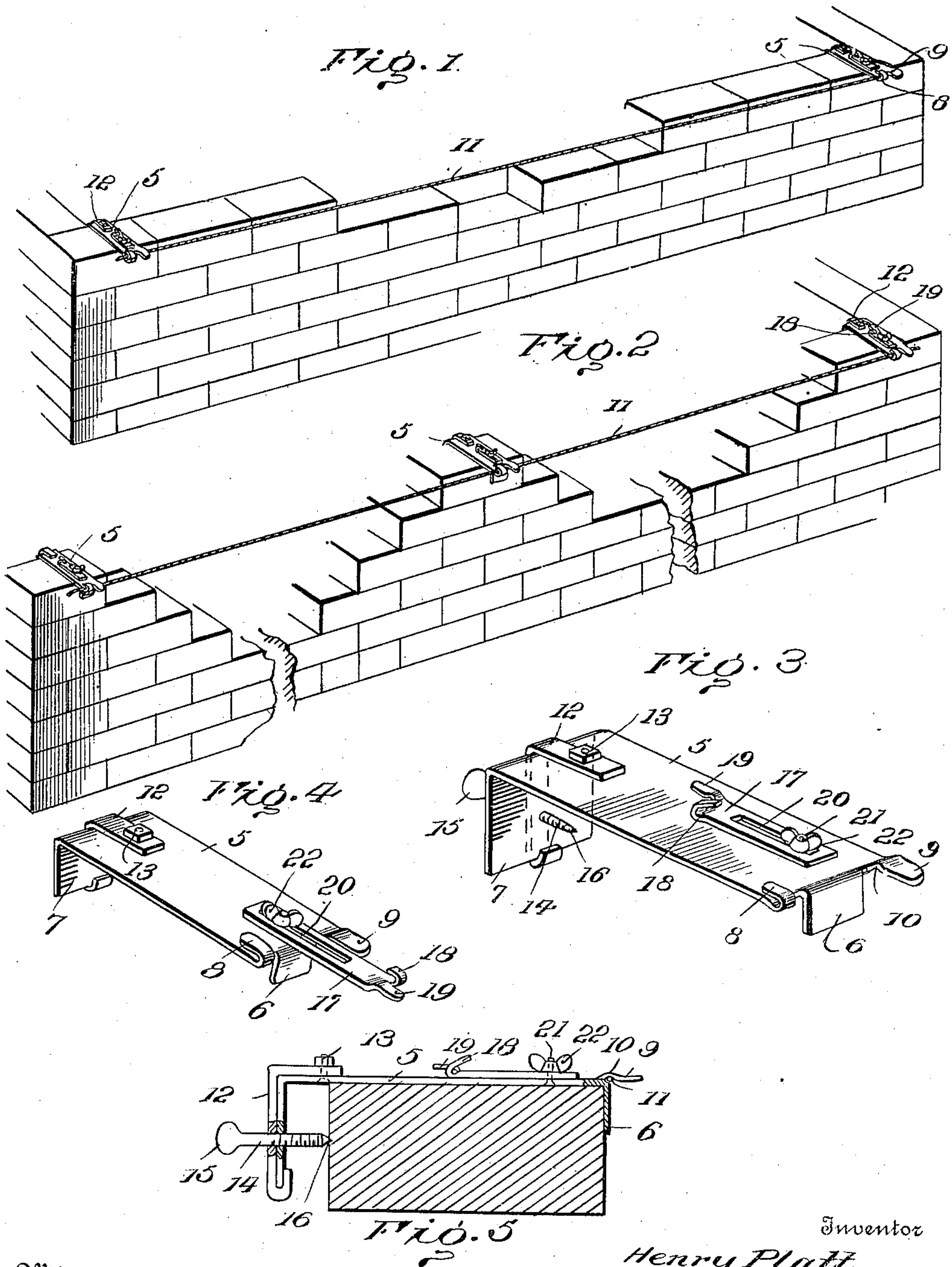


H. PLATT.
TRIGGING DEVICE.

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TRIGGING DEVICE.

995,714.

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To all whom it may concern:

Be it known that I, HENRY PLATT, citizen of the United States, residing at Suffern, in the county of Rockland and State of New York, have invented certain new and useful Improvements in Trigg-
ing Devices, of which the following is a specification.

This invention relates to building construction and more particularly to a triggering device especially designed for use by bricklayers, masons and other artisans for holding a horizontal line in position when erecting a wall or partition or when filling in between walls.

Heretofore, it has been the practice to support a line by passing the latter through one or more flexible loops or eyes fastened to the wall by a bit of mortar or by a suitable weight, as for instance, a loose brick. Such a mode of attaching a line is very unsatisfactory, inasmuch as the loop not only allows the line to sag, but very often becomes detached from the wall with the result that the operator must again anchor said line before proceeding with the erection of the wall.

The object of the invention is to obviate these objectionable features by providing a triggering attachment, capable of being quickly attached to a wall and which will positively prevent accidental displacement of the line during the building operation.

A further object of the invention is to provide a triggering attachment, the construction of which is such as to form a firm anchorage for the line, either when building a straight line or erecting a wall with a sinking or offset.

A still further object of the invention is generally to improve this class of devices, so as to increase their utility, durability and efficiency.

Further objects and advantages will appear in the following description, it being understood that various changes in form, proportions and minor details of construction may be resorted to within the scope of the appended claims.

For a full understanding of the invention and the merits thereof, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a perspective view of a triggering device constructed in accordance with my invention, showing the manner of sup-

porting a horizontal line on a wall; Fig. 2 is a similar view, showing an intermediate triggering device for preventing sagging of the line; Fig. 3 is a perspective view of the device detached; Fig. 4 is a similar view, showing the auxiliary line supporting member in extended or operative position for supporting a line when forming a wall with a sinking or offset; Fig. 5 is a side elevation partly in section, showing the manner of supporting the triggering device on a brick or other suitable support.

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 triggering device forming the subject matter of the present invention comprises a body portion 5 preferably formed of a strip of flat metal having its opposite ends bent downwardly to produce depending clamping flanges 6 and 7 adapted to embrace the opposite longitudinal edges of one of the bricks in a wall or partition. The metal on one side of the front flange 6 is cut or severed and bent upon itself and spaced from the top of the plate to form a rearwardly extending hook 8, while the metal on the opposite side of the depending flange 6 is extended in a horizontal plane to form a longitudinally disposed finger 9 having its intermediate portion curved upwardly to form a depression 10 adapted to register with the hook 8 to permit the insertion of a horizontal line, indicated at 11. The rear clamping flange 7 is reinforced and strengthened by the provision of a bar 12, one end of which is bolted or otherwise rigidly secured to the plate 5, as indicated at 13, while the opposite end is pressed or bent around the flange 7 and is extended upwardly in contact with the inner face of said flange, there being a threaded opening formed in the bar 12 and flange 7 to permit the insertion of a clamping device 14. The clamping device 14 is preferably in the form of a screw one end of which is provided with a finger piece 15, while the opposite end thereof is provided with a pointed terminal 16 adapted to bear against one face of the adjacent brick, thus to firmly clamp the body portion in position on the brick and prevent accidental displacement thereof during the building operation.

Slidably mounted on the upper surface of

the body portion or plate 5 between the hook 8 and finger 9, is an auxiliary plate 17 having its free end provided with a hook 18 and finger 19, similar in construction to the hook 8 and finger 9, and which serve to receive and support a line when forming a sinking or offset in a wall. The plate 17 is provided with a longitudinally disposed slot 20 through which extends a threaded bolt 21, there being a wing nut 22 engaging the threaded end of the bolt and adapted to bear against the upper surface of the plate 17 for supporting said plate in adjusted position.

In erecting a wall having a straight or flush front, a plate 5 is positioned on one of the bricks in the adjacent course of a wall at the opposite ends thereof and retained in position thereon by adjusting the clamping device or screw 14. One end of the line 11 is then anchored on the adjacent plate by wrapping or coiling the line around the screw 14, after which said line is passed under the finger 9 and beneath the bill of the hook 8 to the next plate or triggering device, the line being extended under the finger of the last mentioned plate and thence around the hook thereof, the line being clamped between the hook and upper surface of the plate, as best shown in Fig. 1 of the drawings.

In erecting relatively long walls or filling in between walls, a third plate or triggering device is preferably positioned on one of the bricks in a course between the end plates or triggering devices, said intermediate plate or triggering device serving to prevent swaying or sagging of the line and also serving to hold the latter in proper position for the bricklayer or mason to build to at all times, as best shown in Fig. 2 of the drawings.

It will here be noted that the distance between the flanges 6 and 7 is preferably greater than the width of a brick so as to permit the plates 5 to be positioned on bricks of different sizes. It will also be noted that the hook 8 and finger 9 project slightly beyond the face of the brick so that the line 11 will be at the forward edge of the brick and thus permit the formation of a perfect plumbing.

When forming a wall with an offset or sinking, the auxiliary triggering device or plate 17 is moved longitudinally of the main plate 5 to the desired position and clamped by adjusting the wing nut 22. With the auxiliary plate in the position above referred to, the line is passed under the finger 19 and beneath the hook 18 so as to hold said line in advance of the wall, as will be readily understood. When the auxiliary triggering device or plate 17 is not in use, the clamping nut 22 is loosened and the plate 17 swung laterally to the position shown in

Fig. 3 of the drawings, the offset portion of the finger 19 permitting said finger to clear the hook 8 when moving said auxiliary plate to inoperative position.

It will here be noted that the auxiliary plate 17 is so disposed that when the latter is moved to extended or operative position, one longitudinal edge of said plate will bear against the inner edge of the finger 9 so as to center the auxiliary plate on the body portion 5, said finger forming in effect a guide for the plate 17.

It will of course be understood that as many triggering devices may be employed in the formation of a wall as may be found necessary, and that the line 11 may be anchored in any suitable manner on any or all of said triggering devices.

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

1. A triggering device including a body portion having its opposite ends bent to produce depending flanges, means carried by one end of the body portion and disposed on opposite sides of the adjacent flange for engagement with a line, a reinforcing bar secured to one of the flanges and having a threaded opening formed therein, and a clamping screw extending through said opening and the adjacent flange and bearing against one side of a support for clamping the mating flange in engagement with the other side of said support.

2. A triggering device including a body portion having means for engagement with a support, line supporting means disposed at one end of the body portion, a longitudinally adjustable plate slidably mounted on the body portion and provided at one end thereof with auxiliary line supporting means movable to operative position beyond one end of said body portion, and means for clamping the plate in operative and inoperative positions.

3. A triggering device including a plate having its opposite ends bent to produce depending flanges, the metal on one side of one of the flanges being bent upwardly to form a rearwardly extending hook for engagement with a line, and the metal on the other side of said flange being extended longitudinally to produce a finger having its intermediate portion bowed upwardly to form a seat adapted to receive said line, and a clamping device extending through the other flange and adapted to bear against a support for retaining the plate in position thereon.

4. A triggering device including a body portion having means at one end thereof for engagement with a line, a slotted plate slidably mounted on the upper surface of the body portion and having one end thereof formed with a rearwardly extending hook and a longitudinally disposed finger mov-

able to operative position beyond one end of
said body portion for engagement with said
line, and a fastening device carried by the
body portion and extending through the slot
5 of the plate for holding the latter in differ-
ent positions of adjustment.

10 5. A triggering device including a body
portion having means at one end thereof for
supporting a line, auxiliary line support-
ing means mounted on the upper surface of
the body portion and movable to operative
position in advance of the first mentioned

line supporting means and to inoperative
position at the rear of said first mentioned
line supporting means, and means for 15
clamping the body portion in engagement
with a support.

In testimony whereof, I affix my signa-
ture in presence of two witnesses.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."
