C. C. WRIGHT.

TROWEL.

APPLICATION FILED SEPT. 6, 1910.

989,684. Patented Apr. 18, 1911.

Fig. 5.

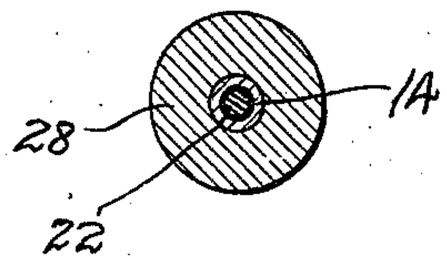


Fig. 6.

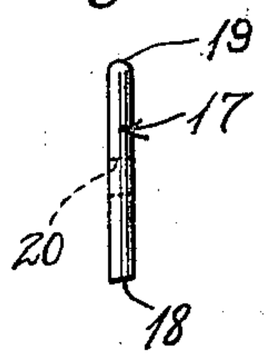


Fig. 1.

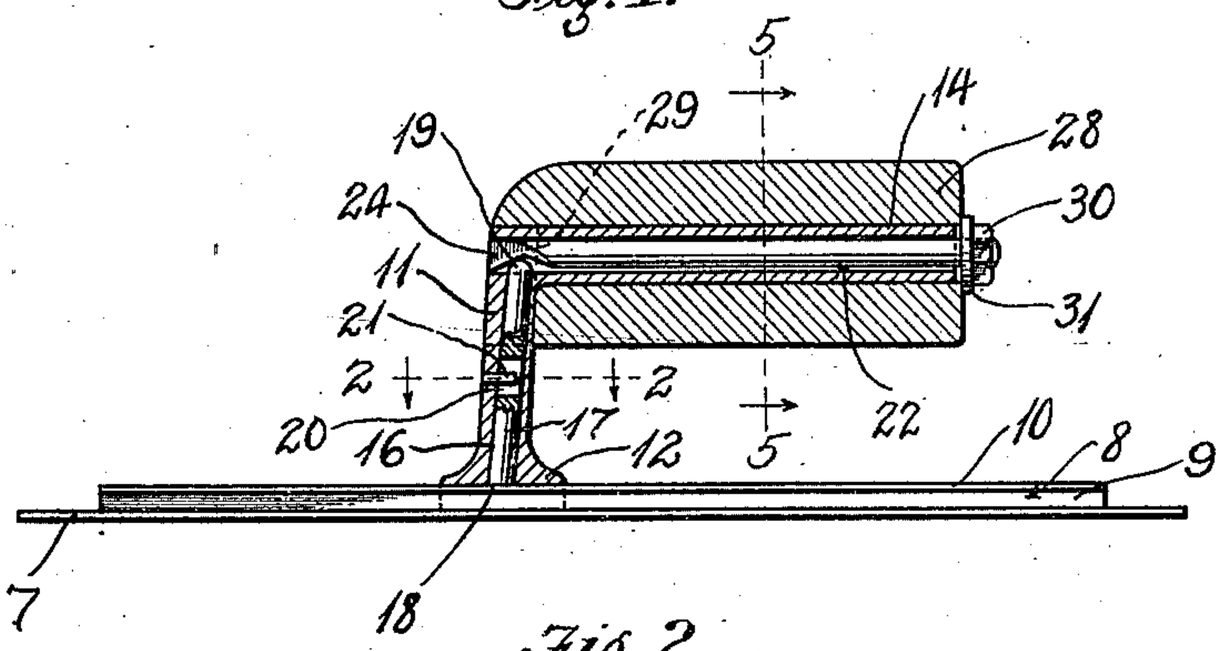


Fig. 2.

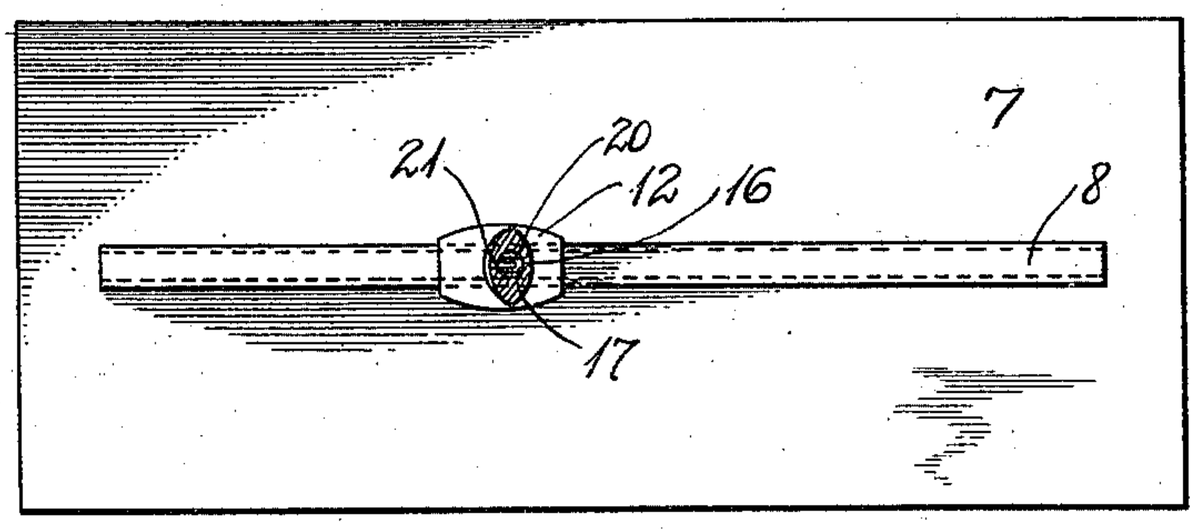


Fig. 3.

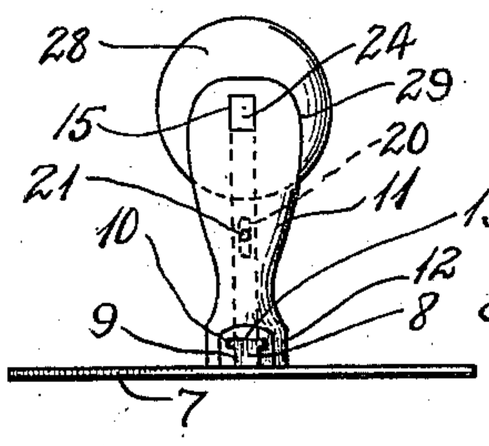
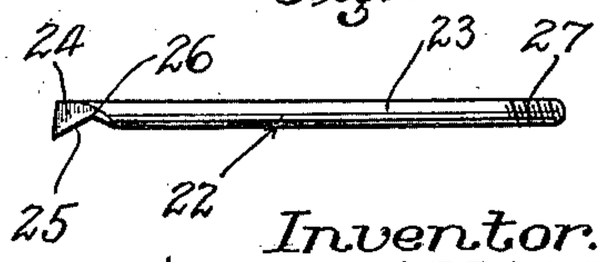


Fig. 4.



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UNITED STATES PATENT OFFICE.

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TROWEL.

989,684. Specification of Letters Patent. Patented Apr. 18, 1911.

Application filed September 6, 1910. Serial No. 580,708.

To all whom it may concern:

Be it known that I, CHESTER C. WRIGHT, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles, State of California, have invented new and useful Improvements in Trowels, of which the following is a specification.

This invention relates to trowels such as used by plasterers and other artisans.

In its general construction the trowel comprises a blade with a longitudinal rib or guide, and the object of this invention is to provide improved means for securing a handle to the blade at any desired point on the guide or rib and enabling the handle to be adjusted readily along the rib.

In the annexed drawing forming a part of this specification, Figure 1 is a view showing the blade and rib in side elevation, and showing the handle and its post in longitudinal section. Fig. 2 is a plan of the blade and rib, and showing the post of the handle in section taken on the line 2—2 of Fig. 1. Fig. 3 is a front elevation of the complete trowel. Fig. 4 is a side elevation of an adjusting gib, which affords means for clamping the post to the rib. Fig. 5 is a cross section through the handle taken on the line 5—5 of Fig. 1. Fig. 6 is a side elevation of a clamping pin, which is disposed between the gib and the rib and exerts pressure upon the rib to secure the post rigidly thereto.

Referring more particularly to the parts, 7 represents the blade of the trowel, which is of elongated rectangular form, as shown, and provided on its longitudinal axis and on its rear face with a longitudinally disposed rob or guide 8. As shown most clearly in Fig. 3, this rib is formed with under cut side faces 9, which form guide grooves inside of the rib and projecting beads or shoulders 10 adjacent to the upper face of the rib.

The handle of the trowel comprises a post 11, the lower portion of which is extended longitudinally adjacent to the rib, so as to form a shoe 12, and this shoe has a groove 13 cut therein, which makes a neat sliding fit with the rib, as indicated in Fig. 3. The upper portion of the post is formed with a tubular tang 14, which projects longitudinally of the blade when the handle is in place and lies parallel with the rib 8. The body of this tang 14 has a round bore through it, as shown in Fig. 5, but at the point where this bore emerges on the forward side of the post, a rectangular opening 15 is formed as shown in Fig. 3.

The post 11 is formed with a longitudinal bore or guide way 16, which may be formed by means of a drill, and this guide way may be slightly inclined, as shown in Fig. 1. In this guide way 16, a clamping pin 17 is mounted so as to make a neat sliding fit, the lower end being formed with a slightly bevel face 18, which rests against the upper face of the rib, as indicated. The upper end of this pin is formed with a rounded nose 19, which projects into the bore of the tubular tang near the rectangular opening 15. At an intermediate point on its length, the clamping pin 17 is provided with a transverse slot 20, and into this slot a dowel pin 21 is driven through the wall of the post, the function of said dowel being to prevent the rotation of the clamping pin.

In the tubular tang 14 I provide a gib 22, the form is clearly shown in Fig. 4. The body of this gib is in the form of a stem 23, at one end of which a head 24 of special form is provided, said head being enlarged at its extremity in a vertical direction, and being of rectangular form so as to fit neatly in the rectangular opening 15. On its under side the head 24 has an inclined face 25, which extends upwardly sufficiently to form a slight notch 26 in the under side of the stem. The end of the stem 23 is provided with screw threads 27, and these threads project beyond the tubular tang. On the tang there is provided a handle proper or grip 28, said grip having a bore which receives a tang, as indicated, the forward end of the handle having a deep recess or socket 29, which receives the upper portion of the post, as indicated in Fig. 3. The handle is held in place by a nut 30, which screws on the threads 27, said nuts, seating on a washer 31.

When the parts are in place, the head 24 of the gib is disposed directly over the upper end of the clamping pin 17 so that the nose 19 of this pin rests in the notch 26 and against the inclined face 25. The lower end of the clamping pin then rests upon the upper face of the rib, as shown. With the parts in this position it will be evident that if the nut 30 is turned so as to advance it on the stem, it will draw the gib 22 toward the rear end of the handle, and in this way the inclined face 25 will exert a wedging action or downward pressure on the clamp-

ing pin 17, and force it against the upper side of the rib. This tends to force the shoe 12 upwardly exerting pressure against the upper sides of the shoulders 10, and in this way the post will be rigidly secured to the rib. It will be evident that the nut holds the handle 28 in place, so that it performs a double function of holding the handle in place and clamping the post when desired. By releasing the nut 30, it will be evident that the post can be slid along the rib so as to be secured again at any point desired. In this way, the trowel may be adapted to the particular use to which it is being put.

Special attention is called to the dowel 21, which prevents the clamping pin 17 from rotating. This is desirable on account of the fact that the lower clamping face of the pin is beveled slightly as set forth.

What I claim is:—

1. A trowel having a blade with a guide formed thereupon, a post having a shoe sliding on said guide, said post having a guide way extending upwardly therethrough, a clamping member mounted in said guide way, a grip attached to said post, and means mounted in said grip for adjusting said clamping member downwardly to clamp said shoe upon said first named guide.

2. A trowel having a blade with a longitudinally disposed rib thereupon, a post having a shoe mounted to slide on said rib, said post having a longitudinal guide way formed therein, a tang projecting from said post, a gib adjustably mounted in said tang to force said clamping member down upon said rib.

3. A trowel having a blade with a longitudinal rib thereupon, a post having a shoe mounted to slide on said rib, said post having a longitudinally disposed guide way formed therein, a clamping pin mounted in said guide way and having its lower end resting against the upper face of said rib, a tubular tang projecting from said post, a gib adjustably mounted in said tang and having an inclined face against said clamping pin, means adjacent the end of said tang for adjusting said gib, and a grip on said tang.

4. A trowel having a blade with a longitudinal rib thereupon, a post having a shoe sliding on said rib, a tang of tubular form, said post having an opening on the forward side thereof communicating with the interior of said tubular tang, a gib lying in said tang and having a head at the inner end thereof, said post having a guide way therein, a clamping pin within said guide way touching said head, said gib affording means for forcing said pin against said rib to secure said post thereto.

5. A trowel having a blade with a guide formed thereupon, a post having a shoe sliding on said guide, a tang of tubular form disposed horizontally from said post, said post having an opening communicating with the bore of said tang, a grip mounted on said tang, a gib lying in the bore of said tang and having a head at the inner end thereof, said post having a guide way therein, a clamping pin provided with a transverse slot lying within said guide way touching said head, a dowel pin rigidly disposed in said post and extending into said slot, said gib affording means for forcing said clamping pin against said guide to secure said post thereto.

In witness that I claim the foregoing I have hereunto subscribed my name this 27th day of August, 1910.

CHESTER C. WRIGHT.

Witnesses:
F. D. AMMEN,
EDMUND A. STRAUSE.