E. J. STRAUB.

SCREED SUPPORTING DEVICE.

APPLICATION FILED OCT. 2, 1916.

1,245,632. Patented Nov. 6, 1917.

Fig. I.

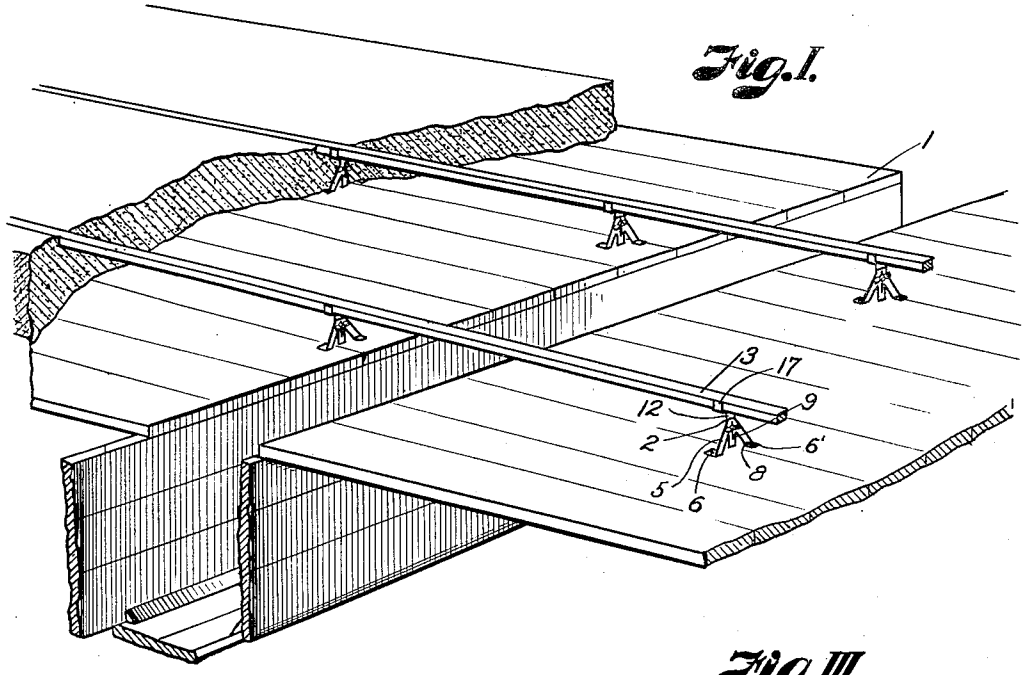


Fig. II.

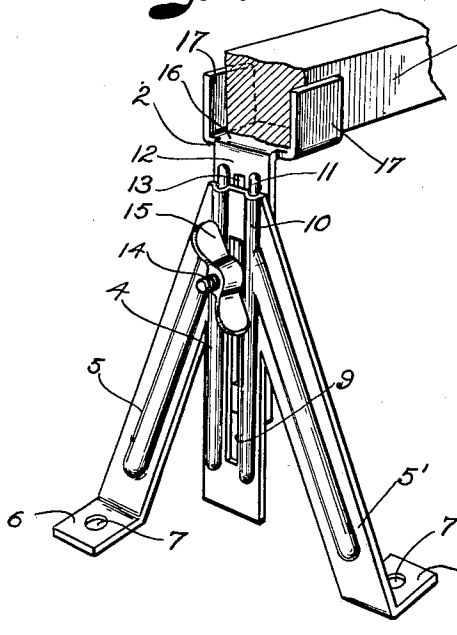


Fig. III.

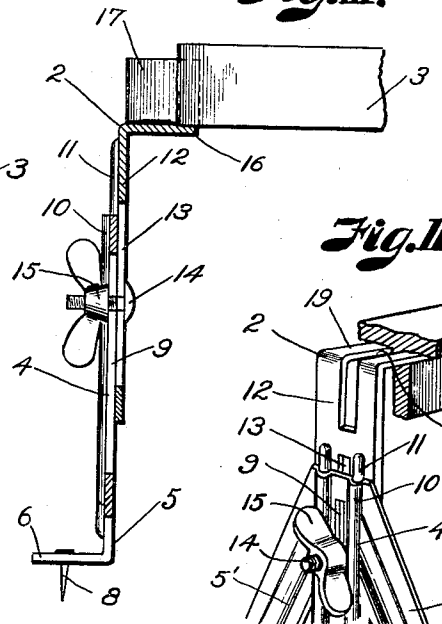


Fig. IV.

INVENTOR.
Ernest J. Straub.
BY Arthur C. Brown
ATTORNEY.

UNITED STATES PATENT OFFICE.

ERNEST J. STRAUB, OF KANSAS CITY, MISSOURI.

SCREED-SUPPORTING DEVICE.

1,245,632. Specification of Letters Patent. Patented Nov. 6, 1917.

Application filed October 2, 1916. Serial No. 123,303.

To all whom it may concern:

Be it known that I, ERNEST J. STRAUB, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Screed-Supporting Devices; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to screed supporting devices, and has for its principal object to provide a device of this character comprising an adjustable feature, whereby the floating or leveling screeds, which ordinarily are used in concrete floor construction or the like, may be adjusted and locked at a desired level.

To those familiar with concrete construction it is known, that, due to a certain unevenness of building material, or to the uneven settling of supporting members, it is practically impossible to construct a floor form to an absolute uniform level throughout, and a concrete floor laid on such a form and floated to an equal depth thereover will likewise retain the unevenness of the form floor.

It is therefore the principal object of the invention to provide means whereby leveling screeds may be substantially supported and adjusted to an absolute uniform level before the concrete is poured, so that the finished floor will have a uniform level regardless of any unevenness that might occur in erecting the floor form.

In accomplishing this and other objects of the invention, I have provided improved details of structure, the preferred forms of which are illustrated in the accompanying drawings, wherein:—

Figure I is a segmental perspective view of a portion of a floor in the course of construction, particularly illustrating the use of the screed supporting devices.

Fig. II is an enlarged perspective view of a screed supporting device constructed according to my invention.

Fig. III is a central vertical section of the same.

Fig. IV is a detail perspective view showing a modified form of screed supporting standard.

Referring more in detail to the drawings:

1 designates a floor form of the ordinary wood construction adapted for receiving concrete thereon, and mounted at spaced intervals on the form are supporting devices 2, embodying the present invention adapted for receiving and supporting the screeds 3 in a vertically adjusted position.

In its preferred construction the supporting device 2 comprises base members having a central body portion 4 having integrally formed supporting legs 5—5′ diverging oppositely from its upper end; the said legs being provided at their base ends with oppositely outturned flanges 6—6′ provided with apertures 7—7′ for receiving nails 8 or the like whereby the said base may be substantially mounted in an upright position on the form floor.

The body portion 4 is provided with a central vertical slot 9 and extending longitudinally adjacent the opposite sides of said slot are stamped grooves 10 which are adapted to slidably receive the registering ribs 11 stamped from an adjustable standard 12 which seats against the side face of the body plate 4.

Extending longitudinally within the standard 12 is a slot 13 which is adapted, when the standard is in position, to register with the slot 9 in the base portion, and projected through the registering slots is a set screw 14 having at its threaded end a wing nut 15 whereby the said standard may be tightened and locked against the body plate 4 and held at any adjusted height.

The standard 13 is provided at its upper end with a screed seat comprising a laterally turned end portion 16 provided at opposite sides with upturned flanges 17—17′ between which a screed strip 3 may be held on the base 16.

In Fig. IV I have shown a modified form of standard adapted for carrying a screed 18 of the T-iron form. In this construction the standard is turned laterally at its end to form a flange 19 which is provided with a slot 20 for receiving the stem 21 of the T-member.

In using the device presuming the parts to be so constructed and assembled, the supports are arranged on the form floor in proper alinement to receive the screed strips

3; the base portions being tacked through the leg flanges to the form boards so that they will be retained against displacement when the concrete is poured.

After the supports and screeds have been placed, the standards are adjusted to support the screeds to a level that may be determined by use of a builder's level from some fixed base mark, and the standards when adjusted are locked at the desired level by means of the lock nut 15. After the screeds have been leveled the concrete is poured into the form and floated to the level of the screeds, so that a uniform finished surface is attained.

It will be seen that by so constructing the supporting devices the screeds may be adjusted to any desired level regardless of unevenness of the forms, and a uniform surface provided over the entire floor.

While I have shown the device only in combination with a wood floor form, it is apparent that such devices could likewise be used on metal, tile or various other forms without departing from the spirit of the invention, and that such devices could be anchored on a ground surface to support side forms for sidewalks or foundations, or could be employed to support or adjust soffits, door or window forms, and for various other purposes.

It will be noted also that the devices can be made of light metal and by providing the ribs in the base and adjustable standard, the parts are substantially stiffened to resist bending or displacement.

It is also apparent that such devices may be cheaply manufactured and easily and quickly adjusted to meet the irregularities of the form.

Having thus described my invention what I claim as new therein and desire to secure by Letters-Patent, is:—

1. A screed supporting device comprising a base member, a standard adjustably carried by said base member, having a laterally turned end portion and upturned lips at opposite sides of said laterally turned portion, and means for locking said standard in an adjusted position.

2. The combination with a form, of a screed supporting device comprising a central body portion having a vertical slot therein and oppositely diverging leg portions having laterally turned and apertured base flanges, whereby said base may be secured to said form, a vertically adjustable standard having a slot therein for registering with said body slot, a screw extending through both of said slots, a tightening nut on said screw whereby said standard may be locked in an adjusted vertical position; said standard having a laterally turned upper end portion and upturned flanges at opposite sides of said laterally turned portion, for the purpose set forth.

3. The combination with a form, of a screed supporting device comprising a body portion having a vertically extending slot therein, and oppositely diverging leg portions provided with laterally turned and apertured base flanges; said body portion having grooves extending parallel with said slot, a vertically adjustable standard having a slot therein for registering with said body slot, and ribs adapted for slidably seating in said body grooves, a set screw extending through said registering slots, a tightening nut on said screw whereby said standard may be locked to said base in a vertically adjusted position, and means for supporting a screed at the outer end of said standard.

4. In a screed support, the combination with a fixed base portion of an adjustable standard comprising a laterally turned end portion and upturned side flanges at opposite sides of said laterally turned portion for receiving a screed therebetween, for the purpose set forth.

In testimony whereof I affix my signature.

ERNEST J. STRAUB.