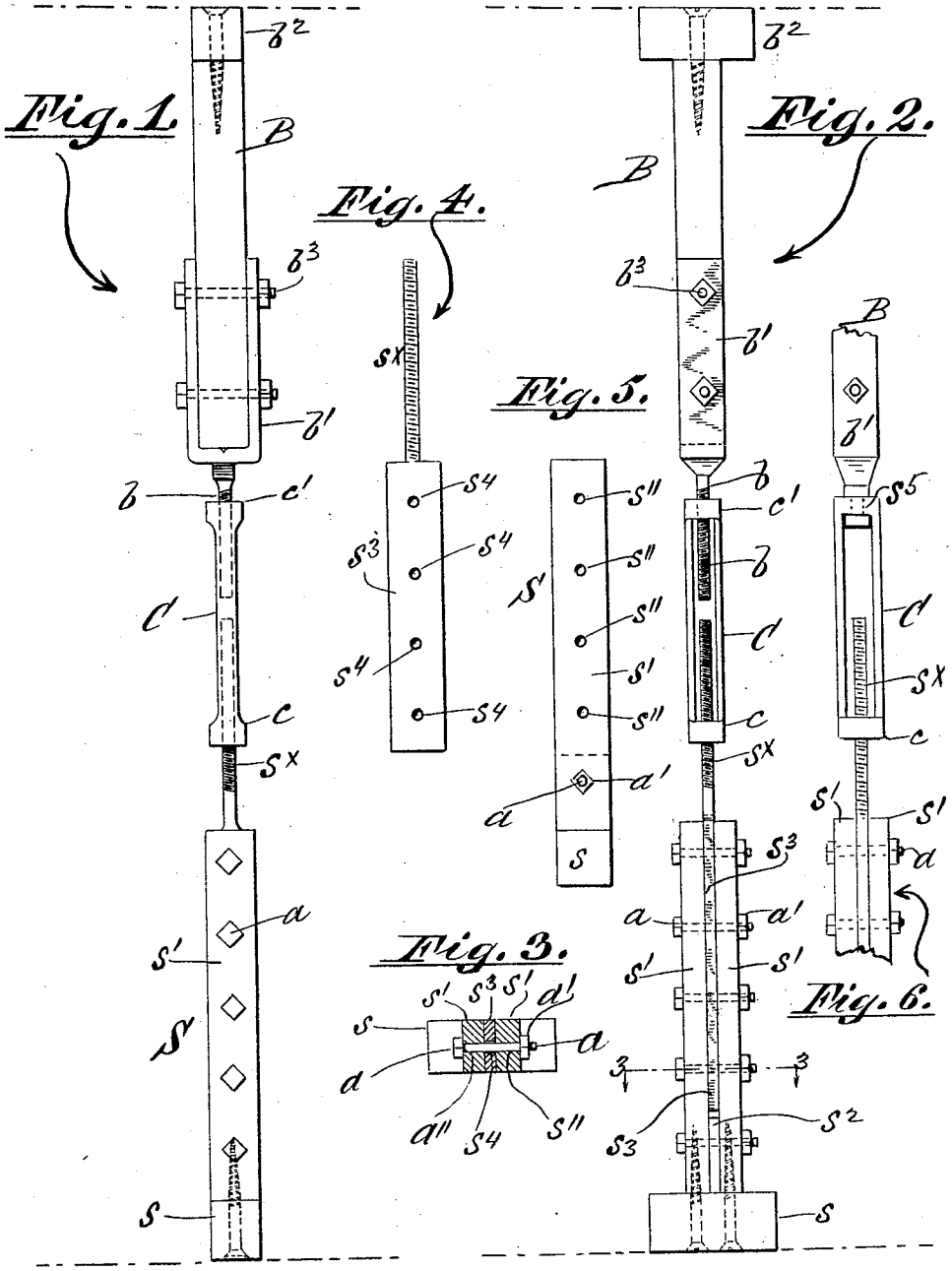
W. H. MORROW.

SHORING DEVICE.

APPLICATION FILED MAY 27, 1920. RENEWED JAN. 9, 1922.

1,409,755. Patented Mar. 14, 1922.



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UNITED STATES PATENT OFFICE.

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SHORING DEVICE.

1,409,755. Specification of Letters Patent. Patented Mar. 14, 1922.

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To all whom it may concern:

Be it known that I, WILLIAM H. MORROW, a citizen of the United States, and a resident of the borough of Manhattan, city, county, and State of New York, have invented certain new and useful Improvements in Shoring Devices, of which the following is a specification.

My invention is designed to afford a simple, inexpensive, but convenient and effective shoring device for building purposes and analogous uses, whereby support may be expeditiously applied when and where desirable. While not limited to such use, it is particularly adapted for service in connection with the laying of concrete floors and other structural work connected with building operations; for the support of side shoring in excavation work, and for the varying exigencies of construction work generally where temporary supporting means are essential.

The invention consists in the specific construction and arrangement of parts described and claimed, a distinctive feature being the provision of means for effecting initial maximum adjustment of length of the appliance in conjunction with means for quickly attaining accuracy of take up or final adjustment or fit, all as hereinafter fully set forth.

In the accompanying drawings,

Figs. 1 and 2, are respectively elevations of the device taken at right angles to each other;

Fig. 3, is a cross section taken upon plane of line 3—3, Fig. 2;

Fig. 4, is a view of the adjustable tongue piece, detached;

Fig. 5, is an elevation of the base standard without the adjustable tongue piece;

Fig. 6, is a partial elevation showing a modification.

My new shoring appliance consists essentially of three main parts or sections, i. e., the base-standard S, the brace head B, and the coupling link C, which is interposed between said standard S, and brace head B.

The standard S, consists of the foot or base s, (for bearing against the primary support) to which are rigidly secured the parallel jaw members s', s', spaced apart adjacent to the base s, by a fillet s^2.

Positioned between these jaw members s', s', is the shank of the adjustable tongue piece s^3, the protuberant end s^x, of which is contracted and screw-threaded for engagement with the adjacent threaded end c, of the rotatable coupling link C, the other end c', of which latter engages with the threaded stud b, of a strap b', secured to the brace head B.

The shank of the adjustable tongue piece s^3, is formed with a series of equi-distant bolt holes s^4, s^4, shown in Fig. 4; and the jaw members s', s', of the standard S, are each formed with a corresponding series of bolt holes s'', s'', shown in Fig. 5, of the drawings. Screw bolts a, and nuts a', are employed to secure the tongue piece s^3, rigidly in position on the standard S, the bolts a, being inserted through the holes s^4, s'', and held therein by the nuts a', as shown more particularly in Fig. 3. Obviously, the bolt holes s^4, s'', in each series being equidistant, the tongue piece s^3, may be adjusted upon and with relation to the base standard S, within certain limits prescribed by the number of bolt holes provided, so that the mean or initial length of the shoring appliance, considered in a unitary sense, may be varied according to circumstances and requirements, situation and use.

The means described for securing the tongue s^3, adjustably upon the base standard S, is preferable under ordinary conditions of use, although I do not wish to limit myself in this respect, since other mechanical expedients may be resorted to with like result.

The brace head B, is provided with a transverse bearing b^2, of suitable extent to afford ample surface for contact with the part or parts to be supported. The strap b', is secured to the inner end of the brace head B, by bolts b^3, or equivalent means.

The strap b', rotatable coupling link C, and adjustable tongue s^3, are metallic, but the base standard S, and brace head B, are preferably although not necessarily, formed of timber of suitable character.

In use, the initial or mean length of the device having been regulated by the adjustment of the tongue piece s^3, upon the base standard S, as hereinbefore set forth, the appliance is positioned where required and the final adjustment of the brace head B, effected by means of the rotatable coupling link C, so as to press the bearing b^2, firmly against the part to be supported. The said rotatable coupling link C, occupying a medial position, is conveniently located for manipulation.

If desired the strap b', may be secured

adjustably upon the brace head B, by means similar to that by which the tongue s^3, is secured to the standard S, thus increasing the available scope of initial adjustment of length of the shoring device; or the parts may obviously be reversed in arrangement and use without departing from the spirit and intent of my invention in this respect,—the standard S, being used as the bearing member and the brace head B, as the base member.

The adaptability of my new shoring device to the varying requirements of use, and the facility with which it may be adjusted and manipulated render it a valuable adjunct in building operations as compared with the primitive forms of shore beams, etc., heretofore in vogue in the art.

While, in order to effect quick final adjustment, the use of two screws is desirable as shown in Figs. 1 and 2, of the drawings, a like but slower adjustment may be effected by the use of a single screw as indicated in the modification shown in Fig. 6,—a swivel connection s^5, being substituted for one or the other screw, as may be found most expedient.

What I claim as my invention and desire to secure by Letters Patent is:

1. A shoring device of the character designated, comprising a base standard consisting of a foot bearing, spaced apart parallel jaw members rigidly secured thereto and formed with a series of coincidental bolt holes, an adjustable non-rotatable screw tongue piece having a shank fitting between said parallel jaw members formed with bolt holes coincidental with those in said jaw members, a brace head formed with a screw stud, and a female screw threaded coupling link connecting the latter and the aforesaid screw tongue piece, together with a plurality of bolts adjustably supporting the said screw tongue piece on the base standard, for the purpose described.

2. A shoring device of the character designated, comprising a base standard consisting of a foot bearing, spaced apart parallel jaw members rigidly secured thereto and formed with a series of coincidental bolt holes, an adjustable non-rotatable screw tongue piece having a shank fitting between said parallel jaw members formed with bolt holes coincidental with those in said jaw members, a brace head formed with a transverse bearing at one extremity and with a strap having a screw stud at the other extremity, and a female-screw-threaded coupling link connecting the screw stud on the brace head with the screw tongue piece on the base standard, together with a plurality of bolts adjustably supporting the said screw tongue piece on the said base standard, for the purpose described.

WILLIAM H. MORROW.

Witnesses:
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DOROTHY MIATT.