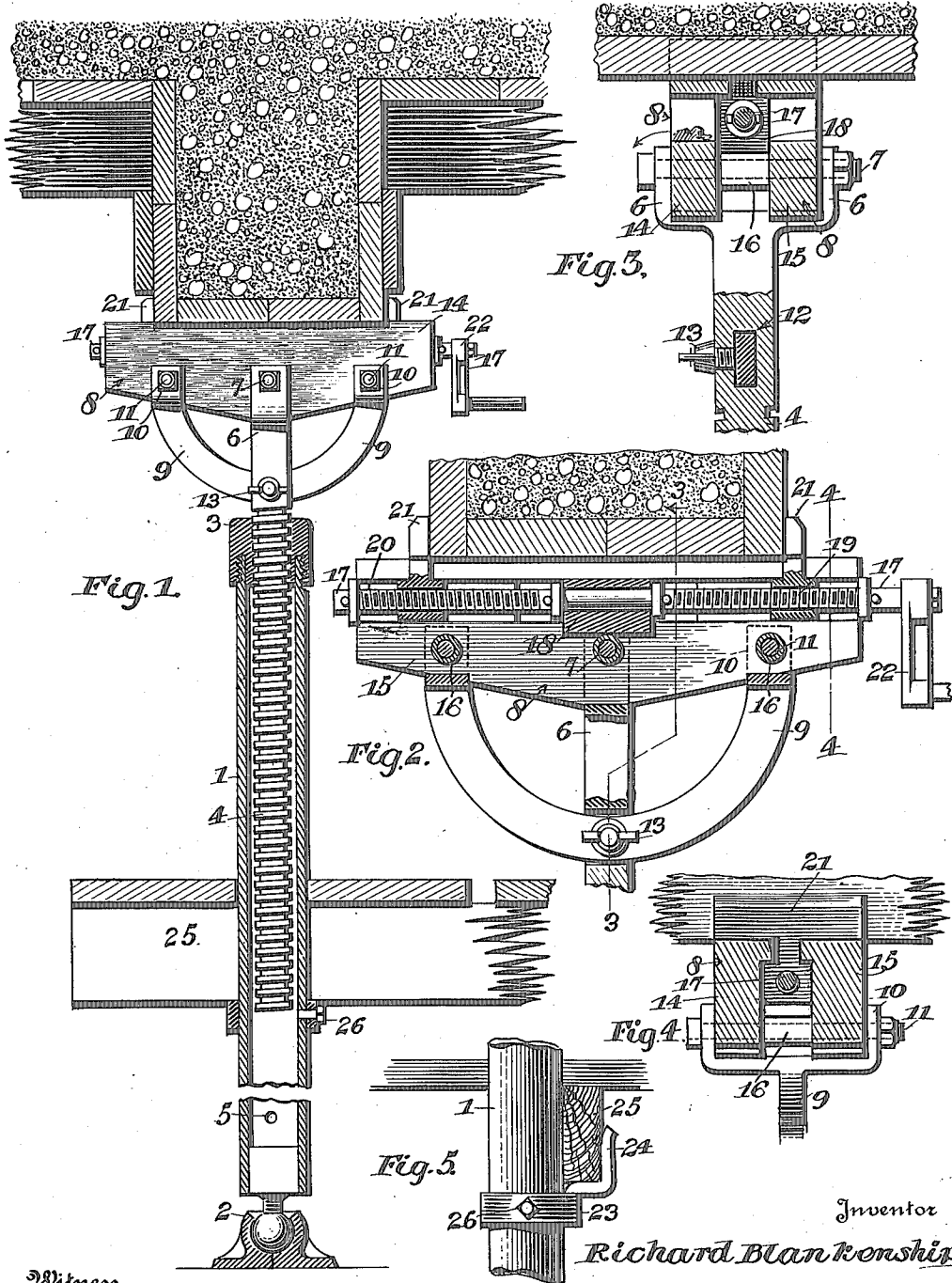


R. BLANKENSHIP.
SHORE.
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SHORE.

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To all whom it may concern:

Be it known that I, RICHARD BLANKENSHIP, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Shores, of which the following is a specification.

My invention relates to improvements in shores for concrete construction work and the objects thereof are to provide a device of this character which is adjustable in the direction of its length, as well as in a plane at right angles to its axial center; to provide novel means for clamping the work; and to provide means for preventing clogging of the clamping means.

To the accomplishment of the recited objects, and others subordinate thereto, the preferred embodiment of my invention resides in that construction and arrangement hereinafter described, illustrated in the accompanying drawings, and embraced within the scope of the appended claims.

In said drawings:

Figure 1 is a longitudinal sectional elevation of the shore in position supporting a mold.

Fig. 2 is a longitudinal section of the follower.

Fig. 3 is a transverse section taken along lines 3—3 of Fig. 2.

Fig. 4 is a transverse section taken along lines 4—4 of Fig. 2, and

Fig. 5 is a detail view showing the manner of supporting scaffolding.

Referring specifically to the drawings, 1 designates a tubular member with a swiveled base 2, and a rigidly carried boss 3 at its upper end engageable with the screw 4. At a point adjacent the base an opening 5 is provided for the reception of any convenient tool, by means of which the tubular element may be rotated to cause the screw to be varied or lowered. The upper end of the screw is bifurcated to form a yoke 6 which is secured to the bolt 7 passing transversely through the follower 8. In this manner the follower is pivoted to the bolt, and may be moved upon its axis to accommodate itself to the mold when it is impossible or impracticable to position the tubular element in a true vertical plane. After the shore has thus been initially positioned, it becomes necessary to maintain the follower in place. In the present instance, the means which I have

devised to accomplish the stated purpose, comprises a flat sector 9 with its ends 10 in the form of a yoke rigidly fixed to opposite extremities of the follower by bolts 11; the sector passing through a slot 12 in the upper end of screw, and being engageable by the set-screw 13 to hold the follower in any desired set position.

The follower *per se* consists of a pair of identical blocks 14 and 15, suitably spaced at opposite extremities by the sleeves 16 of the bolts 11. A shaft 17 is disposed in this space, and rotatably supported by the bushing 18. Equal portions of the shaft upon opposite sides of the bushing are reversely threaded, right-hand threads being designated at 19 while the left-hand threads are shown at 20. Upon each set of threads is a vertically extending jaw 21, and it will appear obvious that when the shaft is turned by means of crank 22, the jaws will simultaneously move toward or away from the work.

An important advantage in connection with the construction of the follower as just described, is that the space between the blocks 14 and 15 not only accommodates the shaft 17, but serves as an outlet for any small particles of concrete which leak from the mold, and which would otherwise have a tendency to clog the threads of the shaft.

If desired, a ring, as 23, with a lateral angular extension 24, may be mounted upon the tubular member 1, and serve as a support for scaffolding, as 25—the adjustability of the ring being secured by the appropriate manipulation of the set-screw 26.

The present practice with regard to concrete construction work is to employ shores which are made very crudely of wood and of dimensions exactly suitable to the work at hand. It follows that when the particular construction work requires shores of slightly different dimensions, the original shores had to be altered to suit the new conditions. Such alterations require considerable time and are expensive. Furthermore, wood is not durable, and whether or not the shores have to be changed from time to time, they necessarily have to be repaired, and frequently discarded. This constitutes another item of expense.

My improved type of shore is designed to be practically indestructible and will last almost indefinitely. The first cost is the

only cost. It may be adjusted to any reasonable degree in a vertical plane, and by reason of the swiveled base and the pivotal follower, it may be positioned over a well hole, shaft, or the like. The clamp which constitutes a component part of the follower embraces the mold tightly—and entirely eliminates the use of nails. Still further, the complete shore is compact and comparatively light, and may be easily and quickly transported from place to place.

What is claimed, is:—

1. A shore comprising a base, a tubular member adjustably mounted thereon, a screw extensibly carried by said tubular member, a yoke formed on said screw, a pivot bolt carried by said yoke, a follower carried by said pivot bolt, comprising supporting blocks and adjustable clamps, and a sector carried by said follower having adjustably locked engagement with said screw.

2. A shore comprising a base, a tubular member movably carried thereby, a screw extensibly carried by said tubular member, a yoke formed on said screw, a pivot bolt carried by said yoke, a follower pivotally carried by said pivot bolt, said follower

comprising spaced supporting blocks, clamps, slidably carried by said supporting block, a screw rotatably carried by said supporting block for actuating said clamps, a sector carried by said follower having engagement with first mentioned screw, and locking means carried by first mentioned screw to establish a fixed relationship between said first mentioned screw and said follower.

3. A shore comprising a base, having a socket formed therein, a tubular member having a rounded lower end movably carried by said base, an internally threaded boss, carried by said sleeve, a screw extensibly carried by said boss, a yoke formed on the outer end of said screw, a pivot bolt carried by said yoke, a follower pivotally mounted on said pivot bolt, said follower comprising base supporting blocks, having guides formed thereon, clamps slidable on said supporting blocks, an operating screw for said clamps carried by said follower and means for retaining a fixed relationship between said follower and said first mentioned screw.

In testimony whereof I affix my signature.

RICHARD BLANKENSHIP.