

No. 647,560.

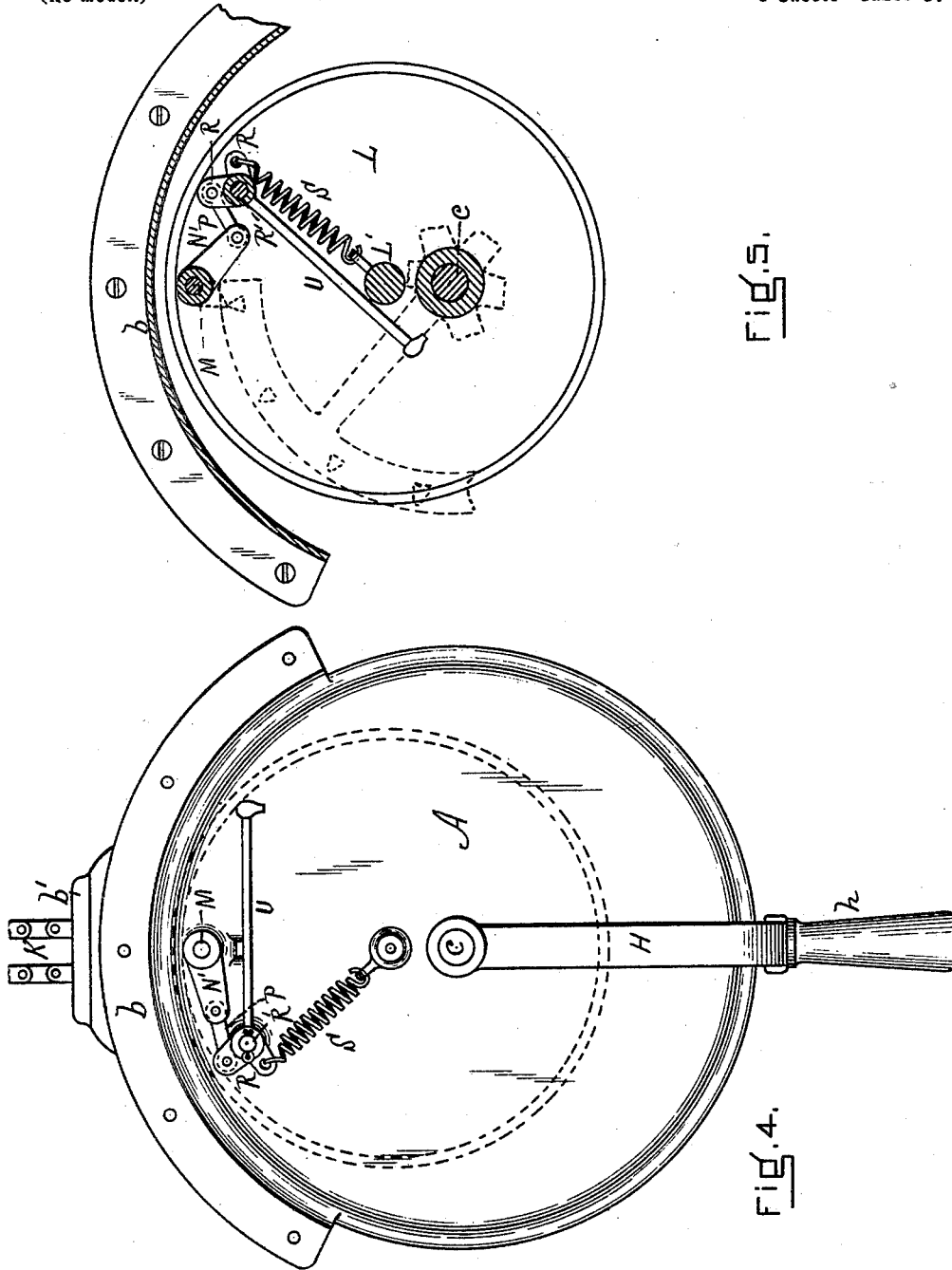
Patented Apr. 17, 1900.

O. E. EATON.
SIGNALING APPARATUS FOR VESSELS.

(Application filed Dec. 14, 1899.)

(No Model.)

3 Sheets—Sheet 3.



WITNESSES

A. J. Conway.
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INVENTOR

Oscar E. Eaton,
By his Atty.
Henry Williams

UNITED STATES PATENT OFFICE.

ELIJAH W. EDWARDS AND IRA S. DECKER, OF BINGHAMTON, NEW YORK.

CUT-STONE STEPS.

SPECIFICATION forming part of Letters Patent No. 647,561, dated April 17, 1900.

Application filed April 2, 1898. Serial No. 676,191. (No model.)

To all whom it may concern:

Be it known that we, ELIJAH W. EDWARDS and IRA S. DECKER, citizens of the United States, residing at Binghamton, in the county of Broome and State of New York, have invented certain new and useful Improvements in Cut-Stone Steps; and we 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 of reference marked thereon, which form a part of this specification.

Our invention relates to improvements in the construction of stone steps for buildings made of stone.

As is well known to architects, builders, masons, carpenters, or others familiar with the art and engaged or acquainted with the construction of buildings of any kind, the stone steps now usually employed in the construction of houses and either leading from the pavement to the door-sill or veranda and extending over the area or those leading up on the terraces and the steps or risers and sides thereof are made of separate pieces of stone and usually cemented together. These steps, with their sides, are constantly getting loose or out of shape or repair, caused by the frost, uneven temperatures, or the shrinkage or expansion of the ground. This not only makes them ungainly and unsightly, but causes great expense in resetting and repairing the steps.

Our invention to overcome and avoid these objections consists in forming the entire steps (either two, three, four, or more) and the sides of a slab of stone out of which they are cut and chiseled to the desired configuration.

It also consists in the peculiar construction of details and the general arrangement of parts, as will be more fully described hereinafter and specifically pointed out in the claim, reference being had to the accompanying drawings and the letters marked thereon.

Like letters indicate similar parts in the different figures of the drawings, in which—
Figure 1 represents a perspective view of

our steps. Fig. 2 is a front view of the steps. Fig. 3 is a cross-section of Fig. 2 on line *x x*.

In the accompanying drawings, A represents the entire steps, the sides B, the steps or risers C, and the treads D of which are made of one piece of stone, that may be granite, marble, freestone, or any of their equivalents. These steps are hewn or cut and chiseled out of one solid piece of stone and of any height and width desired. They may contain two, three, four, or more risers and treads, and, if desired, they may be provided with one, two, or more brackets or ribs *b* on their back to stiffen or strengthen them, and thus lighten them. If employed for the steps to terraces, said brackets can be let into the ground and serve to prevent sidewise movement thereof and will hold them rigidly in position.

The many advantages of our invention will be readily appreciated by those skilled in the art, and among them may be mentioned that the steps and sides will always remain in line, as required. They will make a much better appearance than those made of separate pieces. The open cracks in which dust or earth accumulates will be obviated. The expense caused for repairs or resetting will be avoided. The steps will be much stronger than those now in use, and the breaking or splitting of the separate pieces will be overcome, and finally the expense will be less than those now in use.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

As a new article of manufacture, the cut-stone steps, herein described, consisting of the sides B, the risers C and the treads D, in combination with the brackets *b*, and all constructed and arranged as shown and for the purpose specified.

In testimony whereof we affix our signatures in presence of two witnesses.

ELIJAH W. EDWARDS.
IRA S. DECKER.

Witnesses:

GEO. H. NELSON,
L. R. BIXBY.