W. H. SECHLER.

FOLLOW BOARD SCRIBER.

APPLICATION FILED MAY 3, 1910.

967,448. Patented Aug. 16, 1910.

Fig. 5.

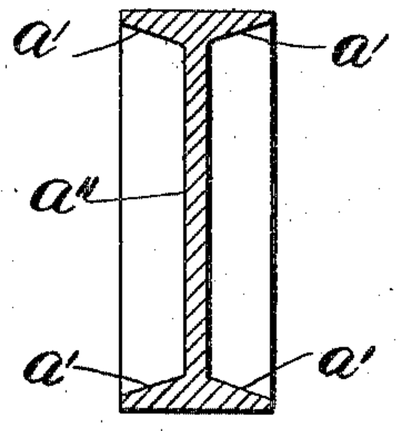

Fig. 2.

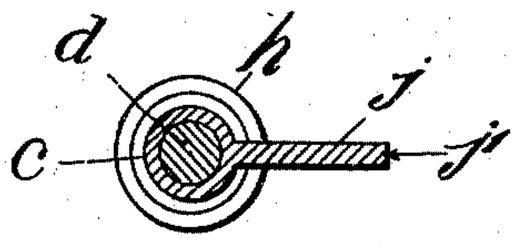

Fig. 4.

Fig. 1.

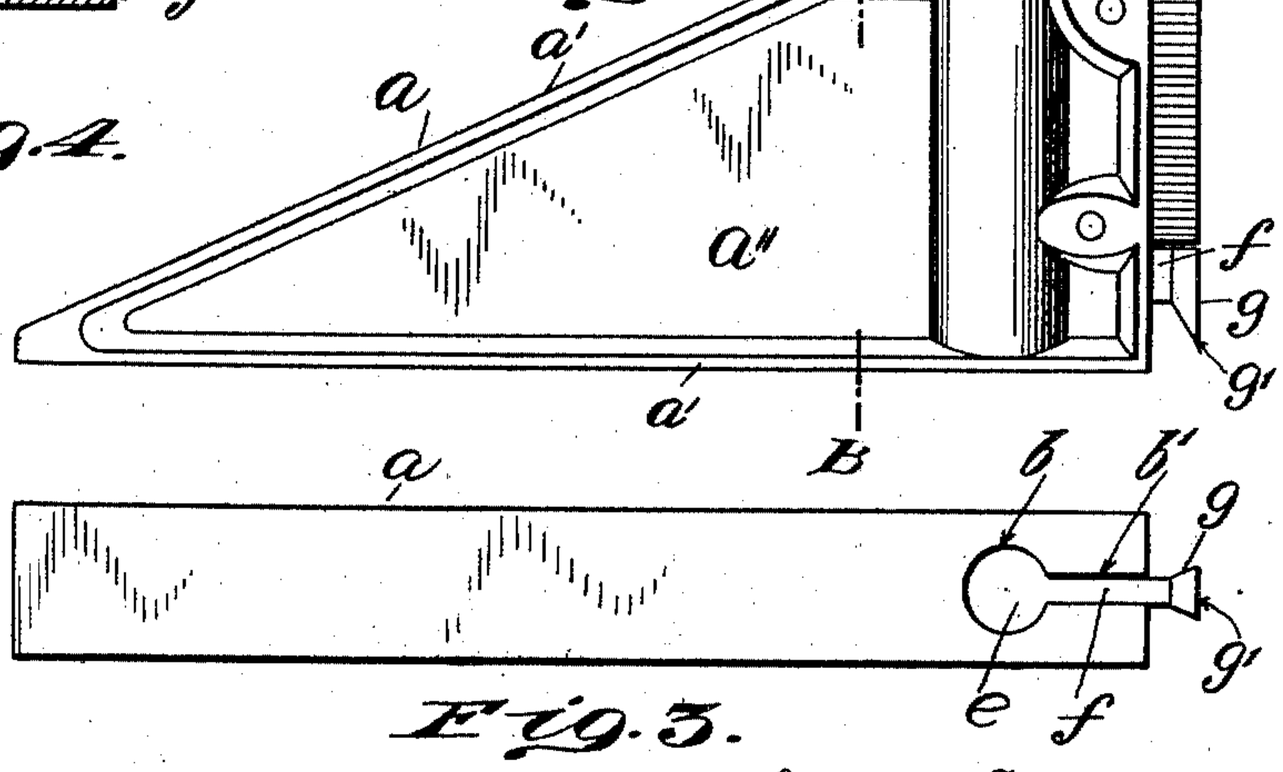

Fig. 3.

Witnesses:
Harry B. Keebig
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William H. Sechler Inventor
By his Attorney
James Hamilton

UNITED STATES PATENT OFFICE.

WILLIAM H. SECHLER, OF BLUFFTON, INDIANA.

FOLLOW-BOARD SCRIBER.

967,448. Specification of Letters Patent. **Patented Aug. 16, 1910.**

Application filed May 3, 1910. Serial No. 559,164.

To all whom it may concern:

Be it known that I, WILLIAM H. SECHLER, a citizen of the United States, residing at Bluffton, in the county of Wells and State of Indiana, have invented certain new and useful Improvements in Follow-Board Scribers, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to improvements in follow-board scribers; and an object of my invention is to provide a scriber of this type which will mark upon the follow-board an exact and accurate outline of the pattern neither too large nor too small, whereby metal will be saved in the making of castings and the necessity of grinding castings to reduce them to the proper size will be obviated.

Another object of this invention is to provide means for marking outline figures on a follow-board with speed and precision whereby labor is saved, the number of outlines reduced and useless cutting and fitting avoided.

In the drawings illustrating the principle of this invention and the best mode now known to me of applying that principle, Figure 1 is an elevation of my new follow-board scriber; Fig. 2 is a central longitudinal section of the same, part of the base being shown in full; Fig. 3 is a view of the lower face or bottom of the base; Fig. 4 is a section on the line A—A of Fig. 1; and Fig. 5 is a section on the line B—B of Fig. 1.

The base *a* is formed at one side with a channel or groove which is keyhole-shaped in cross section. In the upper portion of the enlarged part *b* of this groove is fitted the lower end of a tube *c* in which is slidably mounted a plunger-rod *d*. The latter is formed with a head *e* which slides in the enlarged part *b* of the keyhole-shaped groove and carries a laterally-extending arm *f* which is provided with a knife or cutter *g*. The upper end of the plunger-rod *d* is reduced and its upper extremity is threaded. Upon this threaded end is screwed a screw-cap *h* which serves as a casing or housing for the coil-spring *i* one end of which bears against the top of the screw-cap *h* and the other end of which bears against the upper end of the tube *c*. Hence, when the plunger-rod *d* is pressed downwardly, the coil-spring *i* yields and, when the pressure is removed, the coil-spring *i* expands and thereby restores the rod *d* to its initial position. From the tube *c* projects a wing or guide plate *j* the outer vertical guiding edge *j'* of which is a true edge or fidutial edge; and the line of this edge is at exact right angles to the plane of the bottom of the base *a*. Further, the edge *g'* of the knife or cutter *g* lies in the line of this fidutial edge *j'*. The lower part of the guide plate *j* extends into the narrow portion *b'* of the keyhole-shaped channel formed in the base *a;* and between the lower face of the latter and the lower end of the guide plate *j* there is a space or interval in which reciprocates the knife-carrying arm *f*. As shown in Fig. 5, the base *a* is formed with flanges *a'* which extend from the web *a''*.

My new follow-board scriber is used as follows: The lower face of the base is placed upon the follow-board and the fidutial edge *j'* of the guide plate *j* is held firmly against the pattern. The plunger-rod *d* is then forced downwardly by pressing the cutting edge *g'* of the knife *g* into contact with the follow-board. The scriber is then moved, while the fidutial edge *j'* is held firmly against the parting line of the pattern and the cutting edge *g'* of the knife *g* is held in contact with the follow-board; also the bottom or lower face of the base *a* is held upon the follow-board so that it is in complete contact therewith and the body of the scriber is held at right angles to the tangent to the parting line. In this way the knife *g* is made to cut in the follow-board an exact outline of the pattern. It will be found that it will be necessary to cut only one outline with my new scriber; and that that outline will be exact and accurate in every way, thereby insuring that the casting will be perfect and will require no regrinding. Further, it will be unnecessary to cut a second or third follow-board, unless the follow-board is spoiled in sawing it out. Time heretofore wasted in cutting and fitting will be saved and more and better work may be accomplished with my new scriber than has heretofore been possible by other methods.

My new follow-board scriber may, of course, be made in various sizes to suit the needs of the workmen; and the width of the guide-plate or wing *j* may be varied, in order that the most difficult places in the pattern to attain may be reached. All parts

are accurately fitted so that no error can creep in by reason of looseness of the parts of my new scriber.

I claim:

1. A follow-board scriber having, in combination, a base formed with a channel; a tube carried by said base; a plunger-rod mounted in said tube and extending at one end into said channel; a guide-plate connected to said tube and formed with a guiding edge; and a knife carried by said plunger-rod and having its cutting edge in line with the guiding edge of said guide-plate.

2. A follow-board scriber having, in combination, a base formed with a keyhole-shaped channel; a tube one end of which is fitted in the enlarged portion of said channel; a plunger-rod mounted in said tube and extending at one end into the enlarged portion of said slot; a guide-plate carried by said tube and formed with a guiding edge; and a knife carried by said plunger-rod and having its cutting edge in line with the guiding edge of said guide-plate.

3. A follow-board scriber having, in combination, a base formed with a channel; a tube carried by said base; a spring-controlled plunger-rod mounted in said tube and extending at one end into said channel; a guide-plate carried by said base and formed with a guiding edge which lies at right angles to the plane of the bottom thereof; and a knife which is carried by said plunger-rod and the cutting edge of which is in line with the guiding edge of said guide-plate.

Signed in the presence of the two undersigned witnesses at Bluffton, Indiana, this 26th day of April, A. D., 1910.

WILLIAM H. SECHLER.

Witnesses:
P. L. ROBISON,
J. B. MERRIMAN.