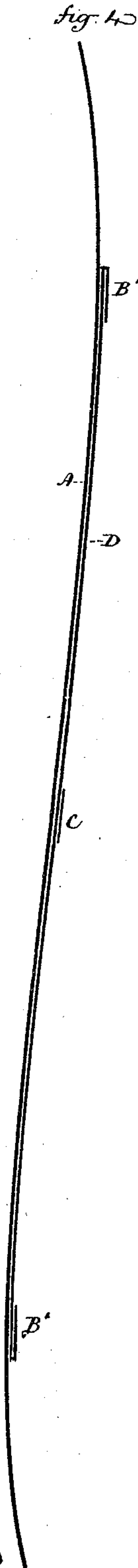
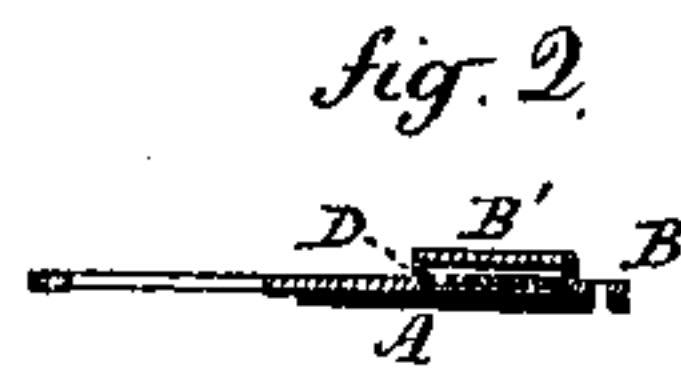
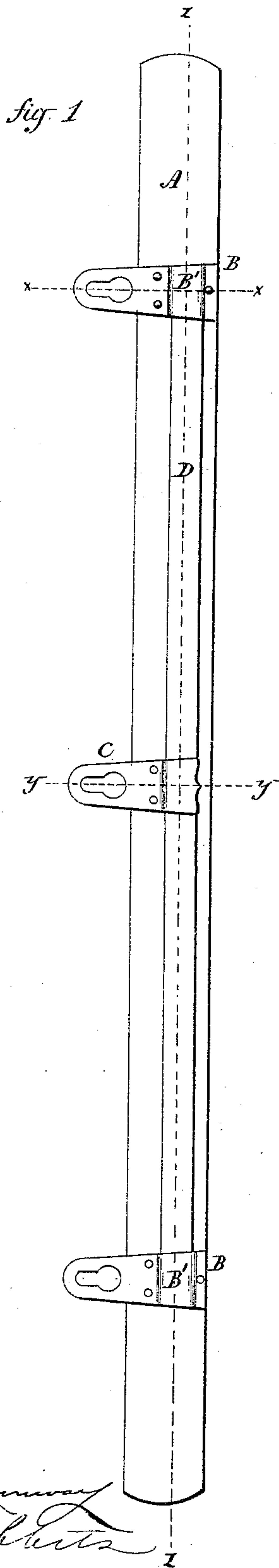


M. P. BRAY.
Corset-Steels.

No. 146,865.

Patented Jan. 27, 1874.



Witnesses.
W. H. Shumway
A. J. Tibbatts

Morris P. Bray
Inventor
By Attys.
Wm. D. Earle

UNITED STATES PATENT OFFICE.

MORRIS P. BRAY, OF NEW HAVEN, ASSIGNOR TO HIMSELF AND DOWNS & BASSETT, OF BIRMINGHAM, CONNECTICUT.

IMPROVEMENT IN CORSET-STEELS.

Specification forming part of Letters Patent No. **146,865**, dated January 27, 1874; application filed December 27, 1873.

To all whom it may concern:

Be it known that I, MORRIS P. BRAY, of New Haven, in the county of New Haven and State of Connecticut, have invented a new Improvement in Corset-Steels; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a front view; Fig. 2, a transverse section on line *x x*; Fig. 3, a transverse section on line *y y*; and in Fig. 4, a longitudinal section on line *z z*.

This invention relates to an improvement in the manner of securing the auxiliary spring upon the surface of the steel proper of corset-steels; and it consists in forming pockets at or near each end of the principal steel, the ends of the auxiliary spring inserted into the said pockets, combined with a covering device at the center, beneath which the auxiliary spring may be placed after the ends are inserted into the pockets, so that the auxiliary spring may be kept in its proper relative position to the principal steel, but yet be free for slight longitudinal movement.

A is the principal steel; B B, the two end hooks; and C, the central hook. On one steel these would be the hooks, and on the other the eyes. The two end hooks B B are formed

with a pocket, B', as seen in Figs. 2 and 4, to receive the end of the auxiliary spring D, but the end closed, as seen in Fig. 4, so as to prevent the auxiliary spring from running through. The two hooks B B are reverse the one to the other, as seen in Fig. 1, so as to receive the two ends of the auxiliary spring. The center hook C is bent up, and so as to lie over the auxiliary spring, as seen in Fig. 3, the rear being left open, so that after the auxiliary spring has been placed in the end pockets, which is done by bending the spring, it may then be slipped beneath the center hook C. This holds the spring in its proper relative position on the steel; and this auxiliary spring should be a little shorter than the length between the extreme ends of the two pockets.

While I prefer to form the pockets in the hooks, these pockets may be formed in a separate piece, and made independent of the hooks and eyes, and accomplish the same result.

I claim as my invention—

The pockets B', attached to the principal steel, to receive the ends of the auxiliary spring, combined with the central support C, constructed and arranged to operate substantially as specified.

MORRIS P. BRAY.

Witnesses:

A. J. TIBBITS,
J. H. SHUMWAY.