H. Kellogg,

Wire Spring.

No. 50,420. Patented Oct. 10, 1865.

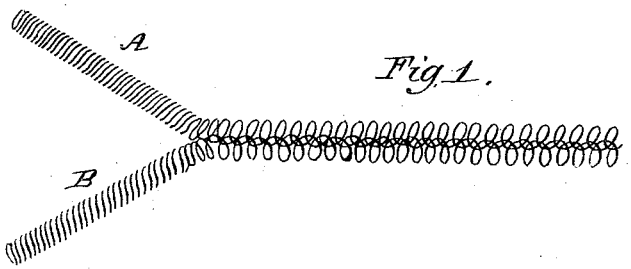

Fig. 1.

Fig. 2.

Witnesses.

Rufus H. Sanford.

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Henry Kellogg

By his Atty

John E Earle

UNITED STATES PATENT OFFICE.

HENRY KELLOGG, OF NEW HAVEN, ASSIGNOR TO HIMSELF AND WALLACE & SONS, OF DERBY, CONNECTICUT.

FLAT-WIRE SPRING.

Specification forming part of Letters Patent No. 50,420, dated October 10, 1865.

To all whom it may concern:

Be it known that I, HENRY KELLOGG, of New Haven, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Flat-Wire Springs; 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, the manner of forming my improved spring, and in Fig. 2 a different manner of flattening.

My invention relates to an improvement in the construction of flat-wire springs, whereby the spring is made elastic both transversely and laterally; and it consists in interweaving two coiled-wire springs and rolling the two flat, so as to unite the two together and form a flat spring.

To enable others to construct my improved spring, I will proceed to describe my manner of so doing, as illustrated in the accompanying drawings.

I first form two common coil-springs, A B, of the size of wire and the diameter of coil, according to the width and strength of the spring to be formed. Forming the coils a little distance apart, I then insert the coils of one spring between the coils of the other, as seen in Fig. 1, then pass the two between rollers, which will flatten the two and so press the coils together that they cannot be disengaged without breaking the springs, and the appearance of the spring will be as seen in Fig. 1. If the two springs are rolled together upon the sides at right angles to that shown in Fig. 1, the appearance of the spring will be that as seen in Fig. 2, but the lateral spring will not be as great when rolled in the last-described manner as in the first.

My spring is adapted to many uses, one of which, and not the least important, is a substitute for whalebones for dresses.

Having, therefore, thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent, is—

The herein-described spring, as a new article of manufacture.

HENRY KELLOGG.

Witnesses:

JOHN E. EARLY,

RUFUS H. SANFORD.