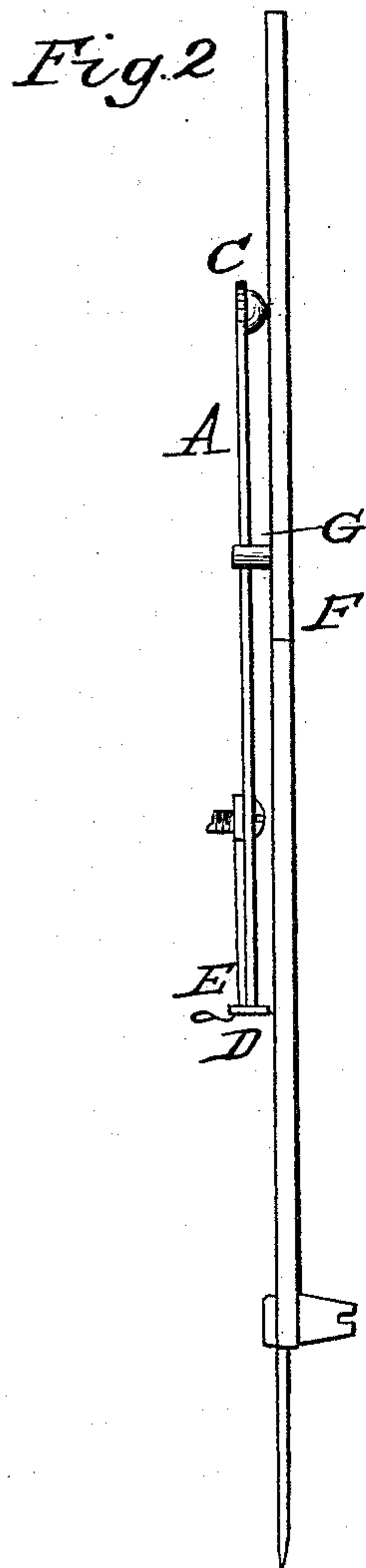


Take-up for Sewing Machines.

Patented Nov. 17, 1868.



Inventor
John V. D. Eldredge

United States Patent Office.

JOHN V. D. ELDREDGE, OF DETROIT, MICHIGAN.

Letters Patent No. 84,099, dated November 17, 1868.

IMPROVEMENT IN TAKE-UP FOR SEWING-MACHINE.

The Schedule referred to in these Letters Patent and making part of the same.

To whom it may concern:

Be it known that I, JOHN V. D. ELDREDGE, of Detroit, in the county of Wayne, and State of Michigan, have invented a new and useful Improvement in a "Take-Up" for Shuttle-Sewing Machines; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, and being a part of this specification.

The object of this invention is to so construct what is usually denominated the "take-up" in shuttle-sewing machines, that a loop will always be formed, under the plate through which the shuttle passes, to complete the stitch, thereby preventing the frequent breaking of the thread, caused by the strain upon it while the shuttle is passing or attempting to pass through the loop. This apparatus will also entirely prevent, when the machine is being employed upon thick stuffs, the kinking of the thread above the article being worked upon.

Figure 1 is a view of the rear of the face-plate of a sewing-machine with my attachment.

Figure 2 is a side view of the needle-bar, showing its connections;

The same letters indicate like parts in each figure.

In order to accomplish the purpose for which this improvement is intended, I rigidly attach the curved spring-lever A to the face-plate B, at or near the upper end of the face-plate B, and shown at C. The opposite end of this lever is provided with a projection, D, which engages with the spring "take-up" E. The

needle-bar F is provided with a pin or projection, G, which, in its reciprocating motion, engages with the curve H, in the lever A, and moves the lower end of the same against the spring "take-up" E, which traverses in the slot I. This movement prevents the strain upon the thread, which, in all other "take-ups" used in straight-needle machines, is caused by the thread being obliged to operate the "take-up," as the shuttle in passing through the loop is compelled to draw the thread through the cloth, and bring the "take-up" to its position.

It will readily be seen that by my improvement the forward movement of the "take-up" is compelled by the projection or pin G, engaging with the curve H, in the lever A, and causing the projection upon its end to engage with the spring "take-up," thereby slackening the thread, so that all the shuttle is compelled to do, in passing through the loop, is to draw the thread through the stuff being operated upon.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination and arrangement of the needle-bar F, provided with pin G, face-plate B, provided with slot I, take-up spring E, and spring-lever A, with the curve H, and projection D, all constructed as described and shown.

JOHN V. D. ELDREDGE.

Witnesses:

H. F. EBERTS,
G. C. HYDE.