(No Model.)

H. B. SPRINGSTEIN.

TREADLE ATTACHMENT.

No. 301,766. Patented July 8, 1884.

Fig. 1.

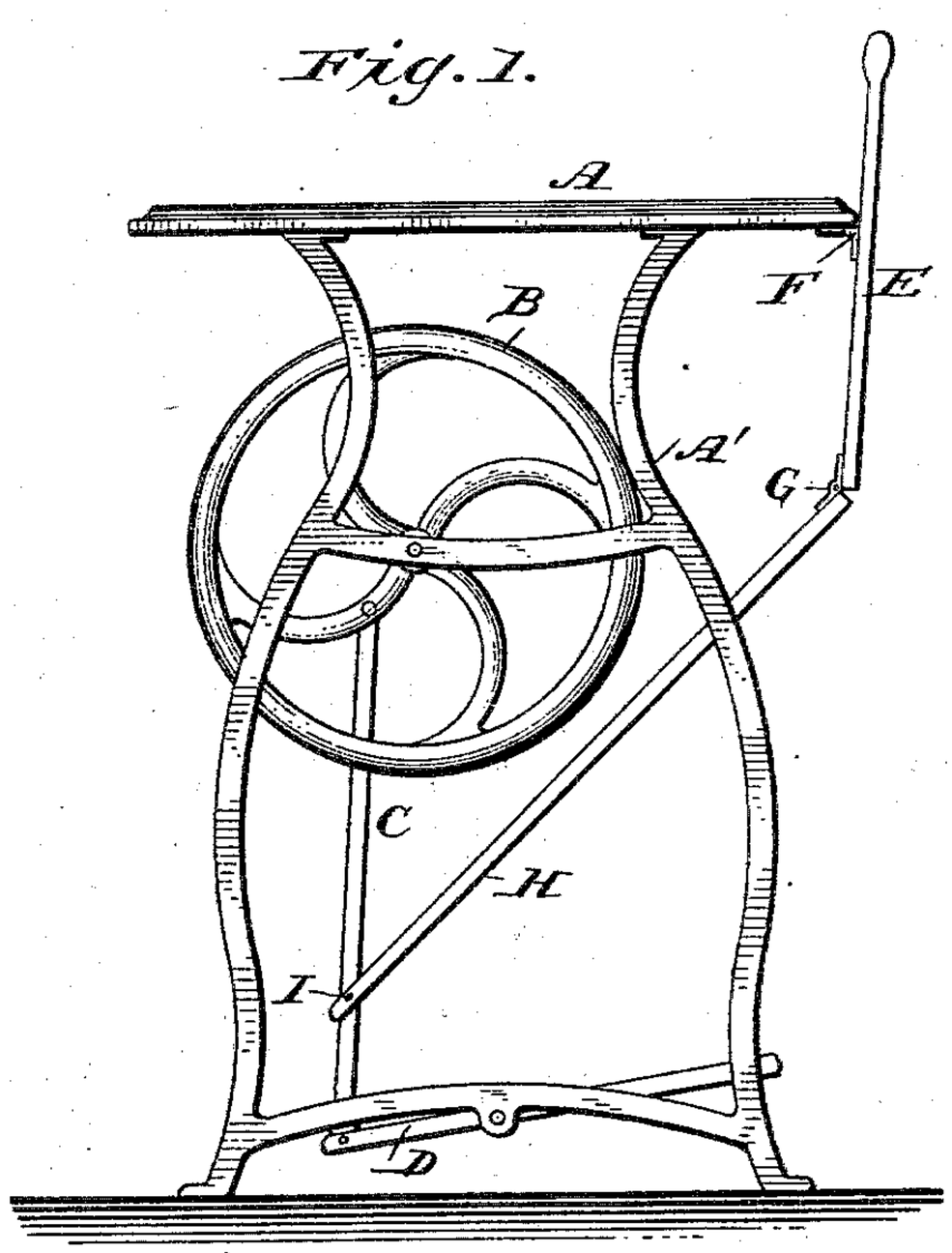
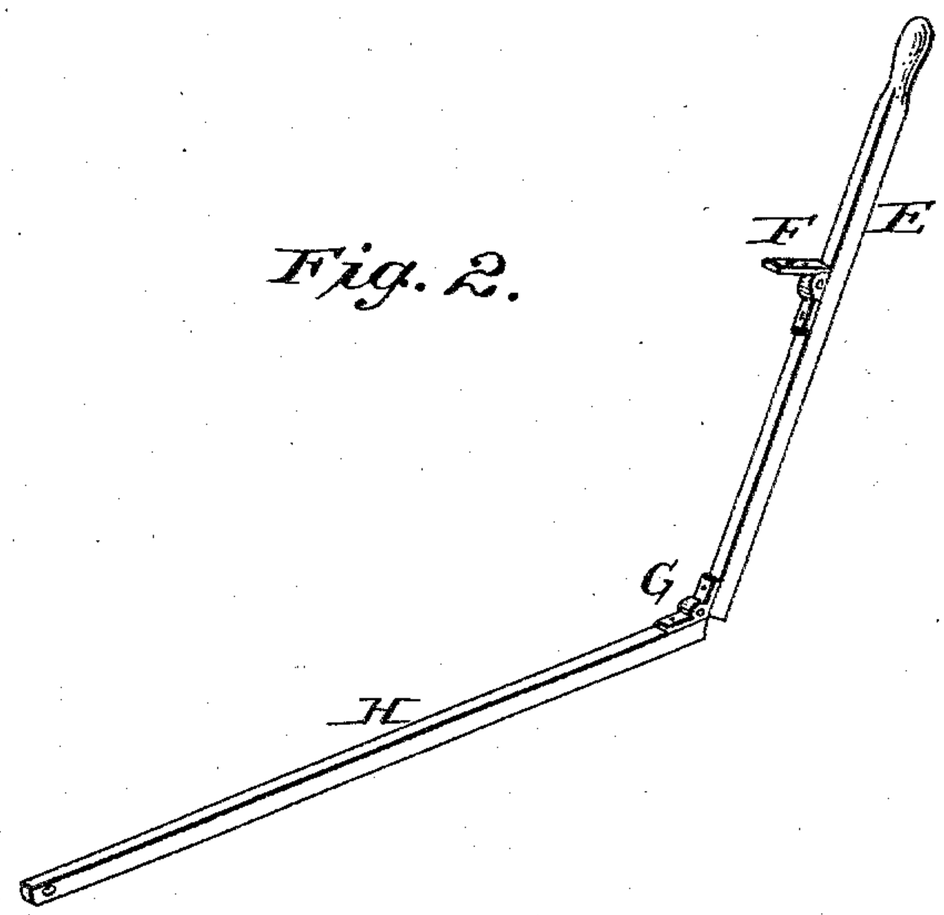


Fig. 2.



WITNESSES

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HARRY B. SPRINGSTEIN, OF ATLANTA, GEORGIA.

TREADLE ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 301,766, dated July 8, 1884.

Application filed May 19, 1884. (No model.)

To all whom it may concern:

Be it known that I, HARRY B. SPRINGSTEIN, a citizen of the United States, residing at Atlanta, in the county of Fulton and State of Georgia, have invented certain new and useful Improvements in Treadle Attachments, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to an improvement in a hand-power attachment for sewing-machines; and it consists in the peculiar construction, arrangement, and combination of parts, as more fully hereinafter described and claimed.

The object of my invention is to provide a sewing-machine with a simple, cheap, and durable hand-power attachment, whereby the machine can be continuously operated, or its inertia overcome by hand-starting, without interfering with the free use of the treadle, when desired.

In the annexed drawings, Figure 1 is a side elevation of a sewing-machine table and frame with my improvement attached. Fig. 2 is a detail view of my improvement detached.

A represents the table; A′, the frame supporting the same; B, the band-wheel; C, the pitman connecting the same with the treadle D.

E is a straight lever hinged directly to the table A by the hinge F, located at a point slightly below its central portion.

H is a pitman connected to the lower end of the pitman C by the bolt I, and to the lever E by a rule-joint, G. This pitman should be of such a length as to keep the lever E in nearly a vertical line.

It will be noticed that the lever E and pitman H are straight, which is very important, as the attachment can be cheaply constructed, and as the grain of the wood remains intact the parts are much more durable than if curved or bent, as has been proposed. The parts E and H should be of such a length and so mounted that when the wrist-pin *b* is at its full stroke in a horizontal plane they will be in alignment. When so arranged, I have found that the power exerted is utilized to the best advantage.

I have also found it of importance to employ a rule-joint, as G, for connecting the ends of the lever E and pitman H, which, abutting when in alignment, limit the movement of the same in one direction.

What I claim as my invention is—

In combination with the table A, band-wheel B, pitman C, and treadle D of a sewing-machine, the hand-power attachment consisting of the straight lever E, hinged directly to the table A at a point below its middle portion, pitman H, connected to the pitman C, and rule-joint G, connecting the parts E and H, which are so mounted and proportioned that when the wrist-pin *b* is at its greatest throw in a horizontal plane they will be in alignment, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

HARRY B. SPRINGSTEIN.

Witnesses:
WM. M. HORSEY,
J. S. ADAIR.