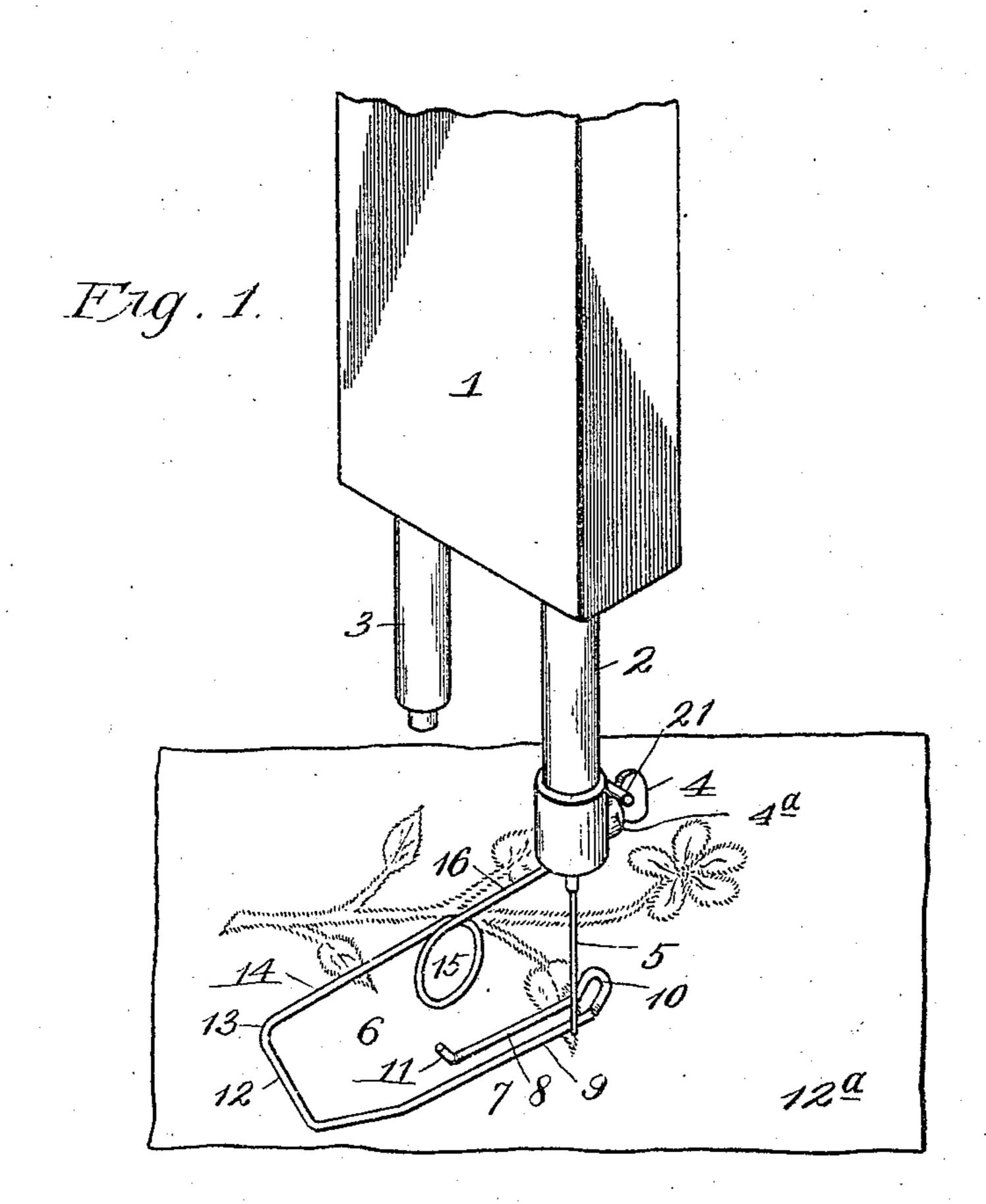
No. 848,396.

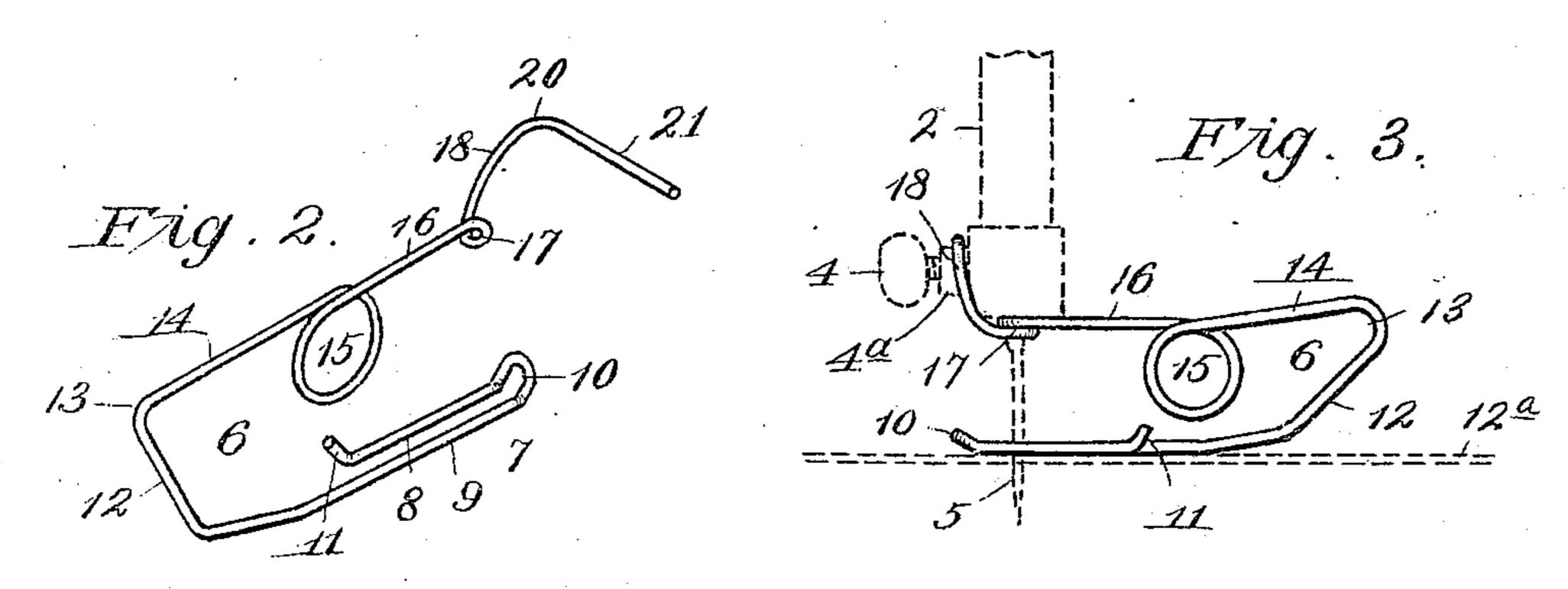
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C. E. REARDON.

EMBROIDERY ATTACHMENT FOR SEWING MACHINES.

APPLICATION FILED DEC. 7, 1905.





Witnesses: Restamillon. Moore

Inventor, Charles E. Reardon By F. G. Fiseher atty.

UNITED STATES PATENT OFFICE.

CHARLES E. REARDON, OF KANSAS CITY, MISSOURI.

EMBROIDERY ATTACHMENT FOR SEWING-MACHINES.

No. 848,396.

Specification of Letters Patent.

Patented March 26, 1907.

Application filed December 7, 1905. Serial No. 290,702.

To all whom it may concern:

5 State of Missouri, have invented certain new and useful Improvements in Embroidery Attachments for Sewing-Machines, of which the following is a specification.

My invention relates to improvements in 10 embroidery attachments for sewing-machines; and my object is to provide a simple and inexpensive device of this character which may be readily attached to the needlebar of a sewing-machine and whereby fancy 15 stitching or embroidery-work may be accu-

rately accomplished.

The device is substituted for the ordinary presser-foot of the sewing-machine, so that the work may be moved in any direction, 20 thus enabling the operator to readily follow any pattern. Devices of this character usually encircle the lower portion of the needle, and thus in a measure obscure the pattern, making it difficult for the operator to follow 25 the same. The lower portion of my device is arranged at the rear of the needle, and consequently does not cover that portion of the pattern in front and at the sides of the needle. By thus exposing the work at these points 30 the most intricate pattern may be easily followed.

In order that the invention may be fully understood, reference will now be made to the accompanying drawings, in which—

Figure 1 represents a perspective view of a portion of a sewing-machine head and the improved attachment in position upon the needle-bar of said head. Fig. 2 is a slightlyenlarged perspective view of the device. 40 Fig. 3 is a side elevation of the device secured to the needle-bar, the latter being in dotted lines.

In said drawings, 1 designates the sewingmachine head, provided with the customary 45 needle-bar 2 and presser-foot bar 3, from which latter the presser-foot has been removed. Needle-bar 2 is provided with a thumb-screw 4 for clamping needle 5 in the

lower portion thereof.

6 designates my improved device, which consists of a single piece of spring-wire bent

in substantially **U** form.

7 designates the foot of the device, which is brought down into contact with the work 55 and reliably holds the latter in position when penetrated by the needle. Said foot com-

prises two parallel members 8 and 9, united Be it known that I, Charles E. Reardon, | at their outer ends by a loop 10. Loop 10 a citizen of the United States, residing at and the inner terminal 11 of member 8 are Kansas City, in the county of Jackson and | turned upwardly to prevent them from en- 60 gaging or catching in the fabric 12a. Member 9 extends beyond member 8 and communicates with an upturned oblique member 12, united at its upper end by a loop 13 to an arm 14, communicating at its inner end with 65 a resilient upright coil 15, which in turn communicates with another arm 16, provided at its opposite terminal with a horizontal eye 17, embracing the upper portion of the needle and engaging the under side of the needle- 70 bar. (See Fig. 3.)

18 designates a shank communicating at its lower end with eye 17, thence extending upwardly and united by a loop 20 to a fingerhold 21, extending at right angles to shank 18. 75

In order to secure the device in an operative position, the needle-bar and needle are raised to the end of their upward stroke. The device is then compressed to bring eye 17 beneath the point of the needle, over 80 which latter it is slipped until it engages the under side of the needle-bar. It is then held in position by grasping the finger-hold 21 and springing the latter over boss 4^a on the lower portion of the needle-bar. Thus with the 85 eye pressing firmly upward against the under side of the needle-bar and the finger-hold pressing downwardly upon the boss it is obvious that the device cannot accidentally move out of its proper position, as the tension 90 thus produced firmly holds the eye in engagement with the under side of said needle-bar, so that the foot of the device cannot wabble in any direction. The broad bearing-surface provided by arms 8 and 9 also prevents 95 the foot from shifting upon the fabric when brought down into contact therewith. When the device is in position, said foot is at the rear of the needle, so that that portion of the pattern in front of the needle is in plain view 100 and may be readily followed. Member 9 of the foot may in practice bear against the needle, but will exert no pressure thereon, as it is entirely supported and held in position by means of eye 17 and the finger-hold. Conse- 105 quently it cannot break the needle. By uniting arms 14 and 16 by the resilient coil 15 arm 14 will at all times remain in substantially a horizontal position, and thus prevent the eye from exerting undue pressure upon 110 the needle when the device is compressed, as practically all of the movement takes place

from loop 13 to coil 15. By placing coil 15 close to eye 17 and arranging it in a vertical position it not only permits a certain amount of independent movement in a vertical plane 5 between arms 14 and 16, but prevents eye 17 from tipping and binding upon the upper portion of the needle.

As the operation of devices of this character is well understood, it is sufficient to state 10 that the device acts as a yielding presser-foot, remaining in contact with the fabric long enough to permit the completion of the shuttle-loop and then rising with the needle until it clears the fabric, so that the work may be 15 inspected and the fabric shifted, as required by the pattern.

From the above description it is apparent that I have produced a device which is simple in construction, durable in operation, and 20 well adapted for the purposes intended.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A device of the character described con-25 sisting of a single piece of wire provided at its lower portion with a foot comprising two parallel members united at their outer ends by an upwardly-bent loop, an upwardly-extending oblique member communicating 30 with the inner end of one of said foot members, an arm communicating with the upper terminal of said oblique member, a resilient coil communicating with the inner terminal of said arm, another arm communicating | Leslie E. Baird.

with said coil, an eye communicating with 35 the outer terminal of the last-mentioned arm, a shank communicating with said eye, and a handhold communicating with the upper terminal of said shank.

2. The combination with a needle-bar, a 40 needle secured therein, and a boss on said needle-bar, of a device consisting of a single piece of metal provided at its lower portion with a foot consisting of two parallel members with upturned terminals arranged in the 45 rear of and entirely to one side of the needle, an upwardly-extending oblique member communicating with said foot, an arm communicating with the upper terminal of said oblique member, a resilient coil communicating 50 with the inner terminal of said arm, another arm communicating with said coil and bearing against the under side of the needle-bar, an eye communicating with the inner terminal of the last-mentioned arm and em- 55 bracing the upper portion of the needle, a shank communicating with said eye and embracing one side of the lower end of the needlebar, and a finger-hold communicating with the upper terminal of said shank and embrac- 60 ing said boss.

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

CHARLES E. REARDON.

Witnesses:

J. Moore,