

G. W. BAKER & D'A. PORTER.
LOCKING-DEVICES FOR DRIVE-WHEELS FOR SEWING-MACHINES.

No. 194,067.

Patented Aug. 14, 1877.

Fig. 1.

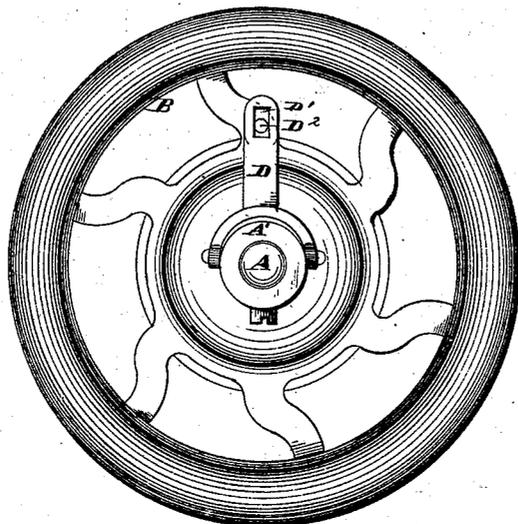
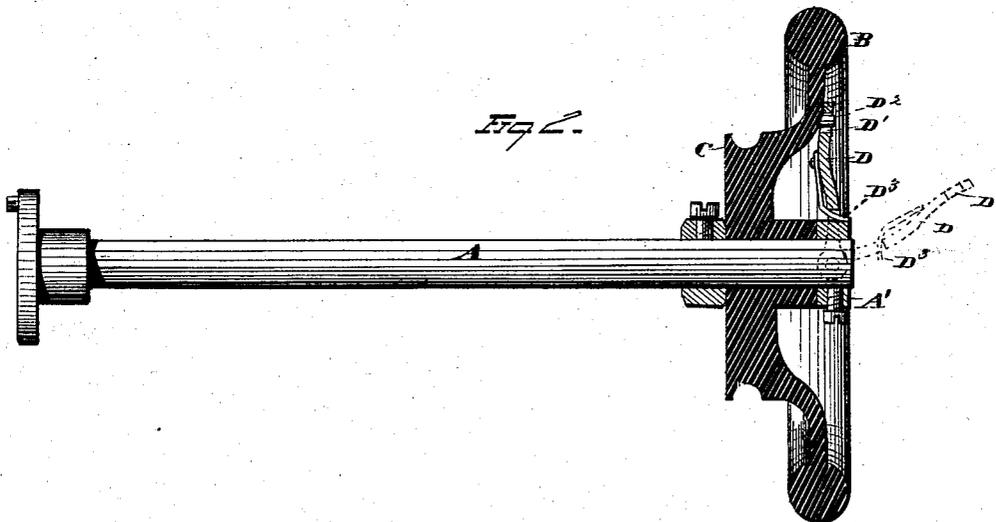


Fig. 2.



WITNESSES
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GEORGE W. BAKER AND D'ARCY PORTER, OF CLEVELAND, OHIO.

IMPROVEMENT IN LOCKING DEVICES FOR DRIVE-WHEELS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 194,067, dated August 14, 1877; application filed June 20, 1877.

To all whom it may concern :

Be it known that we, GEORGE W. BAKER and D'ARCY PORTER, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Sewing-Machines; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

Our invention relates to improvements in sewing-machines; and consists in a peculiar device for facilitating the winding of the bobbin, so that the drive-wheel may be revolved, either forward or backward, without revolving the shaft that drives the needle-bar.

In the drawings, Figure 1 is a front view of a wheel involving our invention. Fig. 2 is a longitudinal central section exhibiting our improvement.

A is the shaft that drives the needle-bar. B is the drive-wheel. C is that portion of the drive-wheel which is adapted to receive the band or belt. D is a frame, pivoted to the end of the shaft A, or to a collar, A', affixed thereto. The frame is slotted or provided with an opening, D¹, into which the pin D² enters through the wheel B. D³ is a spring of any suitable nature, connected with the frame D, and which merely serves to hold the frame always in gear with the pin D², except when it is thrown out of gear by hand.

The operation of the device is very simple, and is substantially as follows: When it is desired to wind the bobbin it has heretofore been customary to reverse the motion of the machine. For this purpose a ratchet or other mechanism has been formed, connecting the drive-wheel with the drive-shaft, whereby, when the machine is running, the two are meshed together, but the construction being such that when the machine is reversed for winding the bobbin the pawl would ride over the ratchet loosely.

This construction, however, dispenses with all such mechanism, and when it is desired to wind the bobbin the only thing necessary is for the operator to throw the arm D off from the pin D², as shown by the dotted lines in Fig. 2. The drive-wheel is now free to move in either direction upon the shaft A without carrying the shaft A with it, the frame D and pin D² being the only means whereby the shaft and wheel are geared together. While the frame is out of gear the operator may run the machine in either direction to wind the bobbin.

It is, of course, not absolutely essential that there should be a spring, D³, and if a spring is employed it might be employed in any other locality as well as in the particular locality shown.

What we claim is—

1. The combination, with the wheel B, provided with a pin, D², said wheel journaled loosely upon the shaft A, of an outwardly-swinging frame, D, pivoted to a shaft or a collar secured thereto, said frame constructed to engage with the pin D² on the wheel, substantially as described.

2. The combination, with the wheel B, provided with pin D², of an outwardly-swinging frame, D, pivoted to a collar, A', secured to shaft A, substantially as described.

3. The combination, with wheel B, provided with a pin, D², of an outwardly-swinging frame, D, pivoted to collar A', and the spring D³, substantially as described.

4. The combination, with the drive-wheel of a sewing-machine, of an outwardly-swinging frame, constructed and adapted to be locked to the drive-wheel, substantially as described.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

GEORGE W. BAKER.
D'ARCY PORTER.

Witnesses:

FRANCIS TOUMBEY,
W. E. DONNELLY.