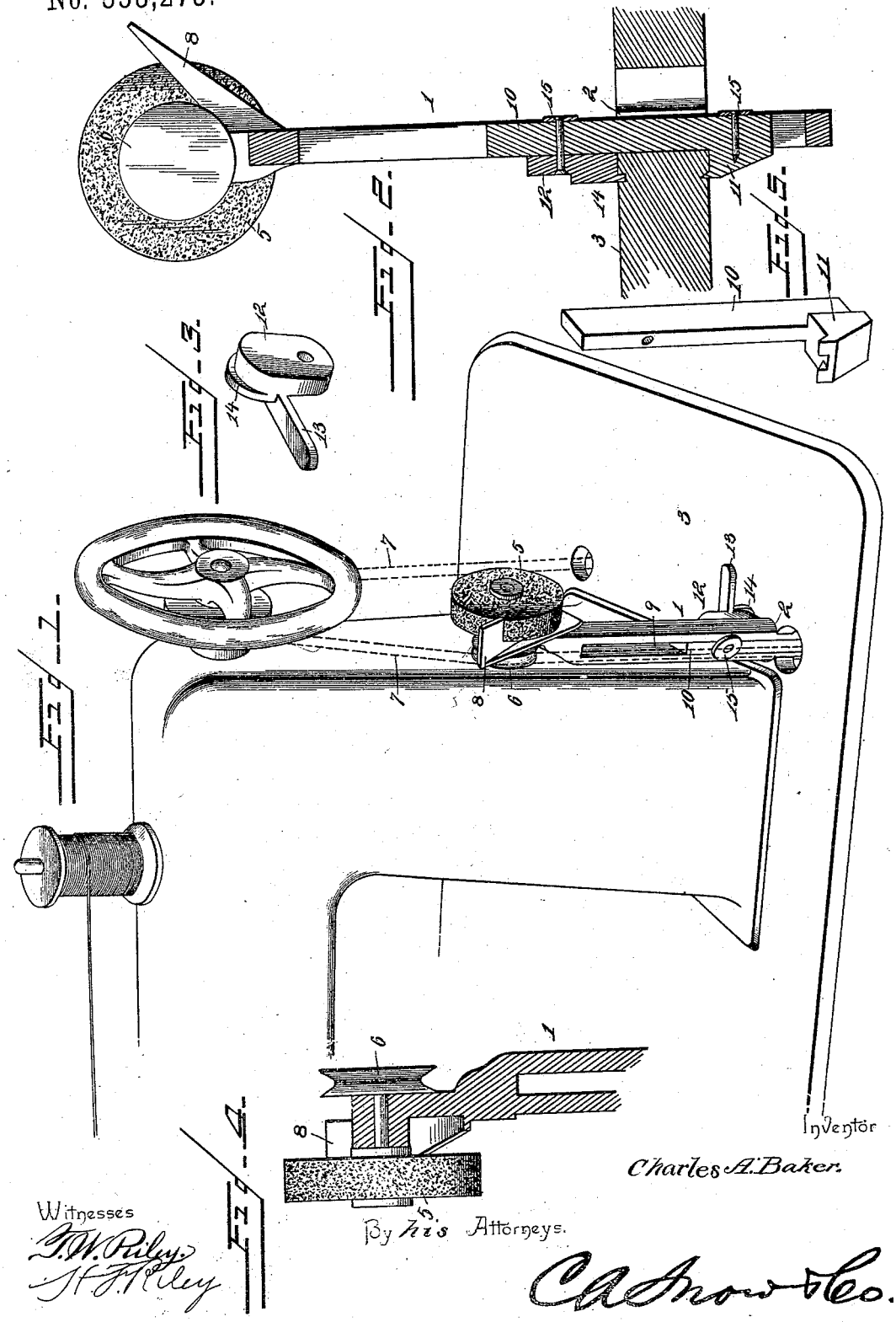
(No Model.)

C. A. BAKER.

GRINDING ATTACHMENT FOR SEWING MACHINES.

No. 553,275. Patented Jan. 21, 1896.



Witnesses
T. W. Riley
H. J. Riley

Inventor
Charles A. Baker.

By his Attorneys.
C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

CHARLES A. BAKER, OF ARKANSAS CITY, KANSAS.

GRINDING ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 553,275, dated January 21, 1896.

Application filed April 30, 1895. Serial No. 547,651. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. BAKER, a citizen of the United States, residing at Arkansas City, in the county of Cowley and State of Kansas, have invented a new and useful Grinding Attachment for Sewing-Machines, of which the following is a specification.

The invention relates to improvements in grinding attachments for sewing-machines.

The object of the present invention is to provide a simple and inexpensive grinding device, adapted to be readily attached to a sewing-machine table and capable of ready adjustment, to adapt it to the particular sewing-machine to which it is applied and to enable it to be operated by the belt or band of the sewing-machine.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claim hereto appended.

In the drawings, Figure 1 is a perspective view of a grinding attachment constructed in accordance with this invention and shown applied to a sewing-machine. Fig. 2 is a central vertical sectional view. Fig. 3 is a detail perspective view of the eccentric. Fig. 4 is a detail sectional view of the upper portion of the standard, illustrating the manner of mounting the grinding-wheel and the pulley. Fig. 5 is a detail perspective view of the shank or bar and the lower jaw of the clamp.

Like numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a vertical standard arranged in a slot or opening 2 of a sewing-machine table 3 and extending upward from the same and provided at its top with a bearing for a shaft, upon one end of which is mounted a grinding-wheel 5 and upon the other end of the shaft is fixed a pulley 6. The grinding-wheel, which may be of any suitable construction and which is preferably an emery-wheel, is located at the outer end of the shaft, and a pulley is arranged at the inner end thereof and is in contact with the belt 7 of the sewing-machine. A substantially L-shaped arm 8 inclines upward from the standard and extends across the face of the grinding-wheel and affords a convenient rest.

The standard is vertically adjustable to enable the pulley 6 to be brought in proper relation to the belt of the sewing-machine, and it is provided with a longitudinal slot 9, receiving a shank or slide 10 of a clamping device, which is composed of the said slide, a stationary jaw 11, mounted on the slide at the bottom thereof and engaging the lower face of the sewing-machine table, and a pivoted eccentric 12, mounted on the upper portion of the slide or shank 10 and engaging the upper face of the table-top. The jaw 11 is provided with spurs for engaging the bottom of the table-top, and the eccentric, which is provided with a handle 13, is tapering in thickness, the lower portion being thicker than the upper portion, whereby, when the lower portion is forced downward into engagement with the table-top, the thickened portion binds against the standard and locks the latter against vertical movement. The bottom of the tapering eccentric is provided with a flange 14, which engages a groove of the table-top. The flange 14 and the spurs of the lower jaw 11 prevent the grinding device from slipping on the table-top. The slide or shank of the clamp is provided with disks or washers 15, which bear against the inner face or side of the standard and enable the eccentric to clamp the same.

It will be seen that the grinding attachment is exceedingly simple and inexpensive in its construction, that it is detachably and adjustably secured to the top of the sewing-machine table, and that it may be readily arranged to be operated by a belt of a sewing-machine.

Changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

What I claim is—

A grinding attachment for sewing machines, comprising a vertical standard, having a longitudinal slot, a grinding wheel mounted on the standard, a pulley connected with the grinding wheel and adapted to be operated by a sewing machine, and a clamp

comprising a slide arranged in the slot of the standard, a fixed jaw arranged at one end of the slide, and a tapering pivoted eccentric mounted at the opposite end of the slide adapted to engage a sewing machine table and to bind against the standard, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

CHARLES A. BAKER.

Witnesses:
ANNA SPEERS,
M. S. MARTIN.