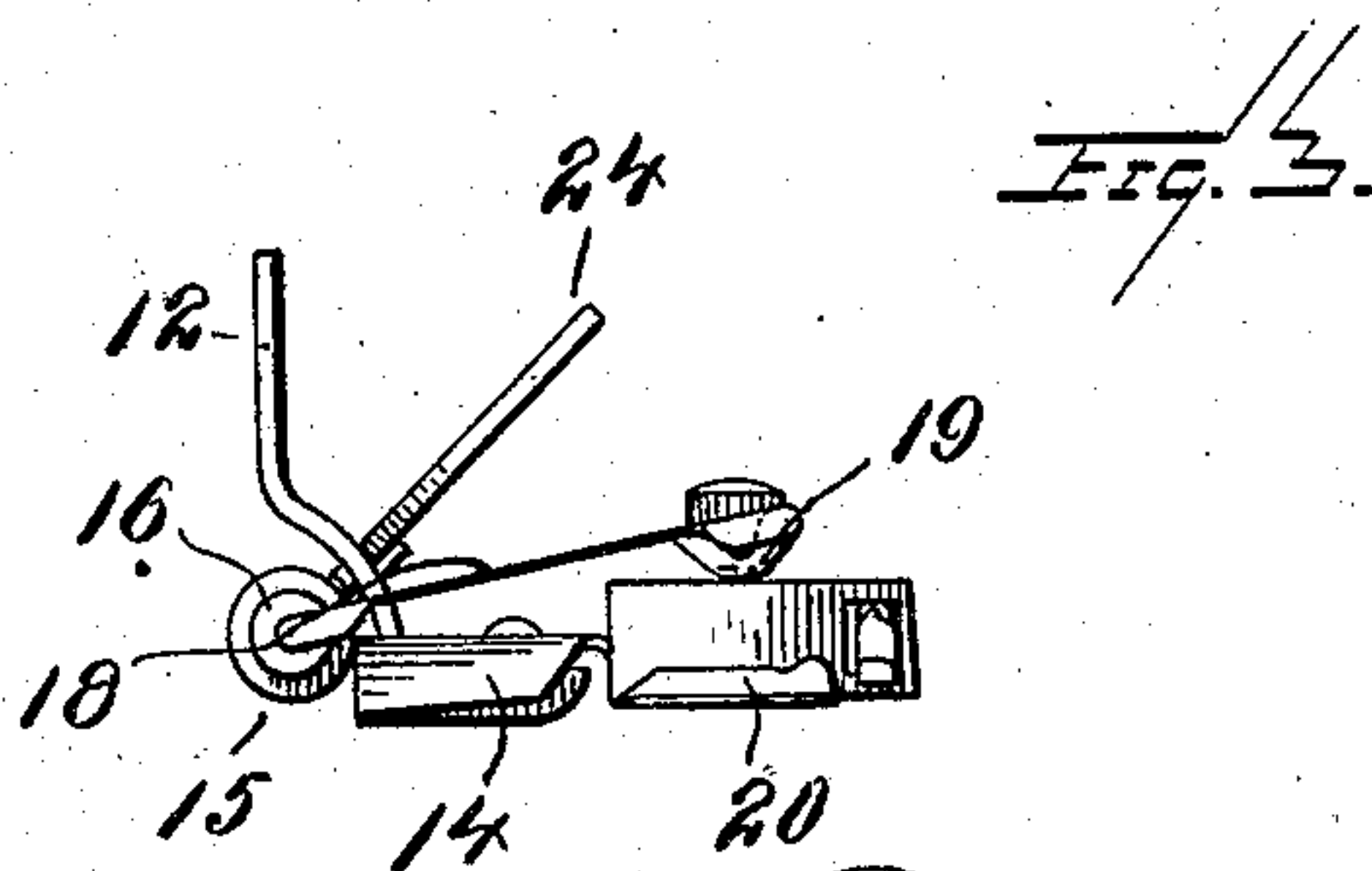
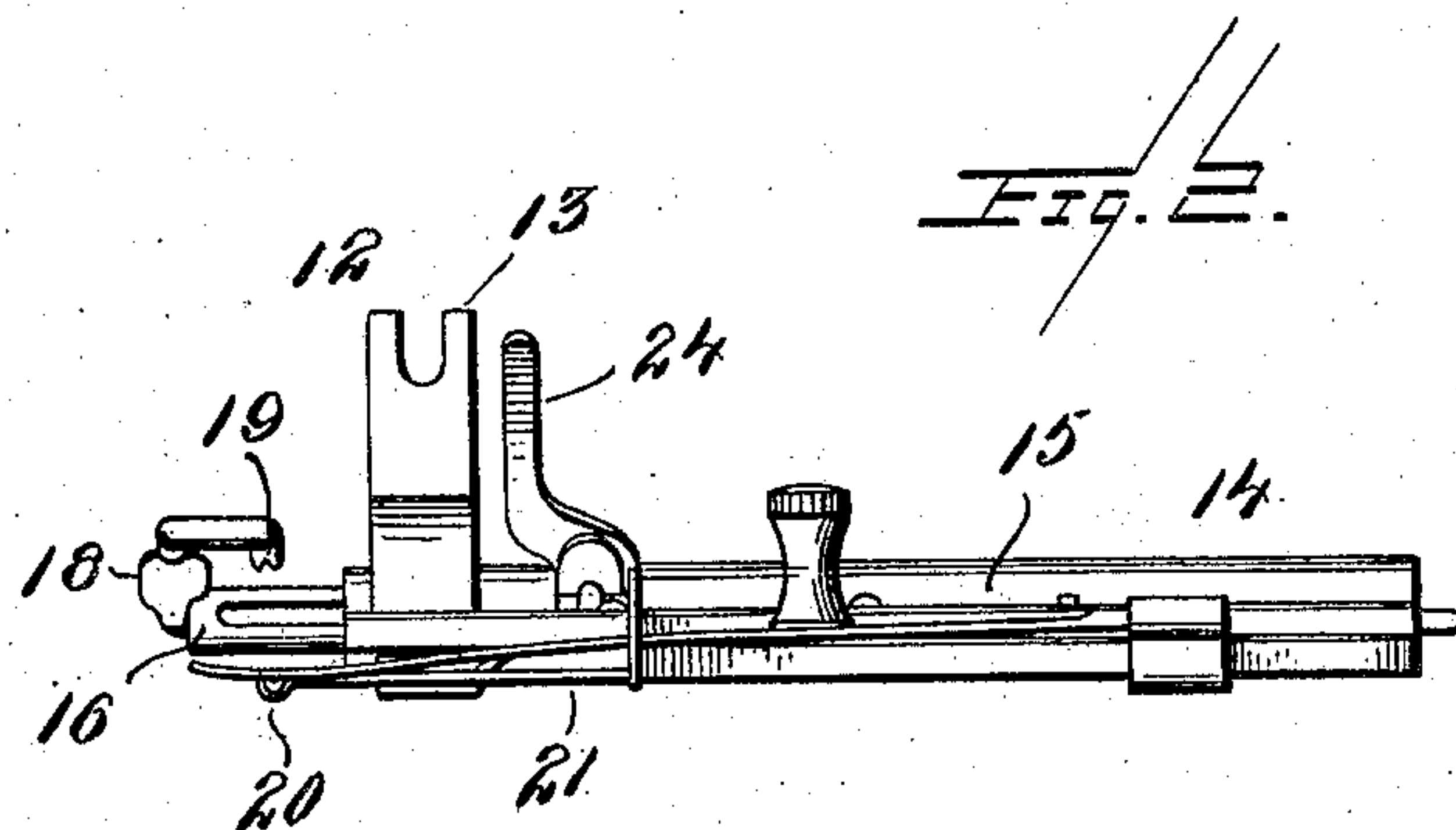
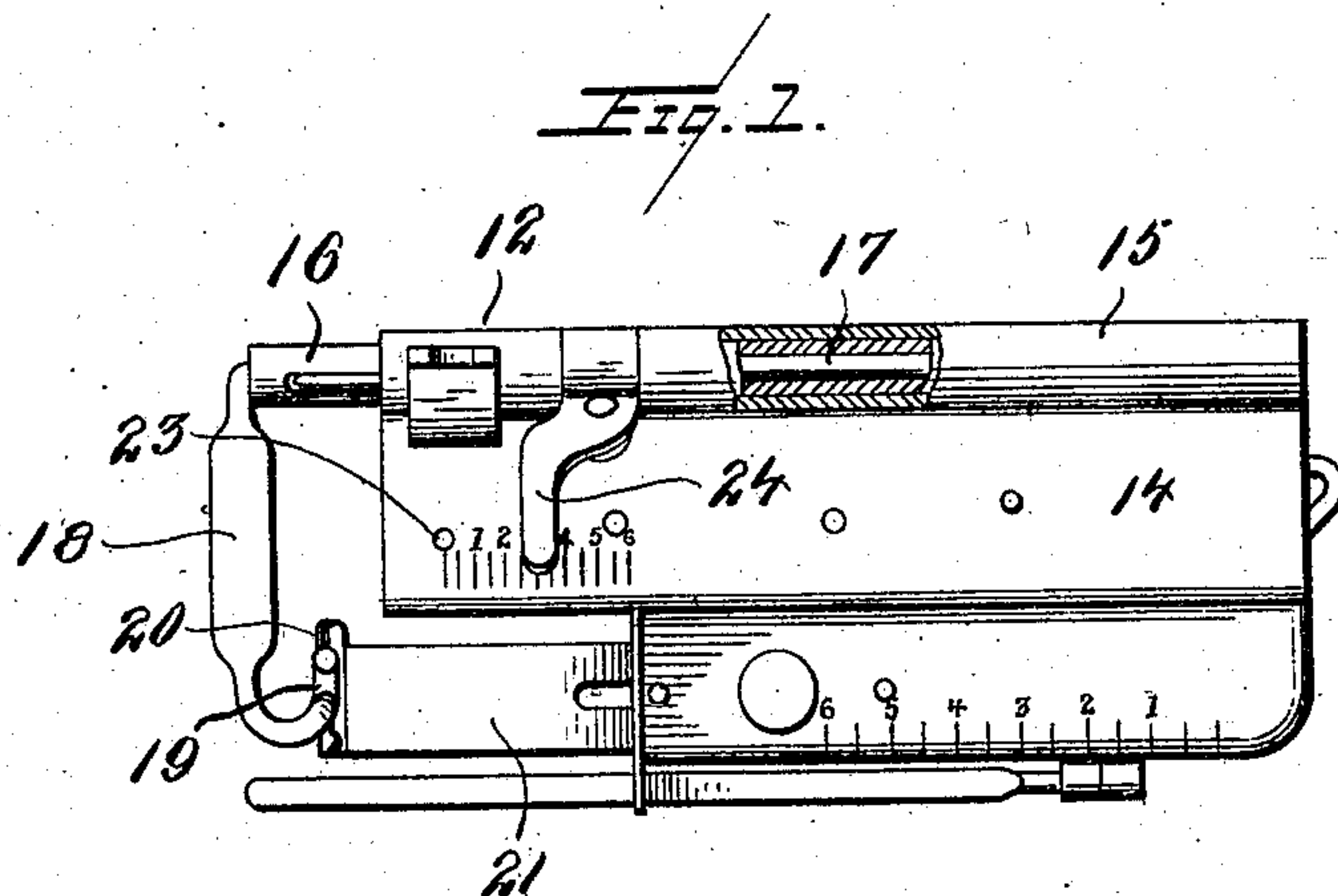


No. 854,942.

PATENTED MAY 28, 1907.

P. R. GREIST.
SEWING MACHINE TUCK CREASER.
APPLICATION FILED MAR. 13, 1907.



WITNESSES:

H. F. Hoyle
L. M. Sweeney

INVENTOR:

Percy Raymond Greist

By

Calver & Calver

Attorneys

UNITED STATES PATENT OFFICE.

PERCY RAYMOND GREIST, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO
THE GREIST MANUFACTURING COMPANY, A CORPORATION OF CON-
NECTICUT.

SEWING-MACHINE TUCK-CREASER.

No. 854,942.

Specification of Letters Patent.

Patented May 28, 1907.

Application filed March 13, 1907. Serial No. 362,093.

To all whom it may concern:

Be it known that I, PERCY RAYMOND GREIST, a citizen of the United States, residing at New Haven, in the county of New Haven and State of Connecticut, have invented or discovered certain new and useful Improvements in Sewing - Machine Tuck-Creasers, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to that class of tuck-marking or tuck-creasing attachments for sewing machines, such, for example, as shown by U. S. Patent No. 665,441, granted January 8, 1901, and in which the creasing arm is formed by a right-angular bend in a piece of wire suitably attached to a rocking tube mounted in a tubular portion at the rear side of the attachment. This construction is one which may be manufactured at comparatively little cost, but in the practical operation of attachments of this class it has been found that the steel wire from which the creasing arms are made varies in temper, and the creasing arms do not therefore always have sufficient elasticity to enable them to co-operate properly with the creasing lips of the attachments between which and the fingers of the creasing arms the goods to be marked or creased run.

This invention has for its object to increase the flexibility of the creasing arms which are formed integral with torsional wire rods, without materially increasing the cost thereof and without providing objectionable projections such as would result if the arms were coiled or extended to increase their length and flexibility, the result being that in the improved tuck-marker or creaser compactness of construction is not interfered with, while any desired flexibility of the creasing arms may be provided for, this result being secured by flattening the wire forming the main part of the body of the creasing arm, by swaging or otherwise, so that the arms will be thin and flexible.

In the accompanying drawings, Figure 1 is a plan view of a tuck-creaser embodying the present invention. Fig. 2 is a front edge view, and Fig. 3 is an end view of the same.

Referring to the drawings, 12 denotes a presser-foot having a shank 13 for attachment to the presser-bar of a sewing machine, said presser-foot and shank being rigidly at-

tached to a plate or frame 14 constituting the main portion of the attachment. The plate or frame 14 is provided at its rear edge with a tubular portion 15 in which is mounted a rocking tube 16 receiving a torsional wire rod 17 extending lengthwise of said tube and having a right-angular portion 18 constituting the creasing arm, said creasing arm having a creasing finger 19 provided at its under side with a V-shaped groove registering with a creasing lip 20 carried by an adjustable plate 21 connected with the rocking tube 16, as is common in devices of this kind, so that the creasing members may be simultaneously adjusted toward and from the needle of the machine; the position of the needle being indicated by the needle-hole 23. The wire rod 17 is connected at one end with the rocking tube so as to rock therewith, although it is adapted to yield torsionally somewhat relative to the oscillating movements of said tube, so that the latter may continue to move after the forward rocking movement of the wire rod has ceased by the impact of the creasing arm against the goods.

To give the creasing arm 18 suitable flexibility the wire from which the same is made is flattened out thin, by swaging or otherwise, so that said arm will readily accommodate itself to the creasing lip as it is yieldingly pressed down upon the goods lying upon the latter by the impact of a projection on the needle-bar of the machine against the operating arm 24 rigidly connected with the rocking tube 16. By thus providing a flattened creasing arm, formed by swaging down or flattening the wire from which the same is made, the said arm may be given any desired flexibility without materially increasing the cost or destroying the resilience thereof, so that it will, as stated, more readily accommodate itself to the creasing lip. This improved construction, as has been demonstrated by practice, provides a tuck-creasing attachment by which the goods may be guided to the needle of the machine in straight lines without tendency of the goods to run either to the right or to the left, which objectionable tendency frequently resulted from the constructions heretofore in use in which the creasing arms were not thus flattened out thin and made flexible.

Having thus described my invention I

claim and desire to secure by Letters Patent:—

1. In a sewing machine tuck-creaser, the combination with a creasing lip, of a creasing
5 finger co-operating therewith, and a torsional, rocking, wire rod extending lengthwise of the attachment and having at its forward end an integral right-angular creasing arm provided with an integral creasing finger
10 co-operating with said creasing lip, said arm being flattened out thin to afford proper resilience to said creasing finger in addition to the resilience afforded by said torsional rod.

2. In a sewing machine tuck-creaser, the
15 combination with a plate or frame having a tubular portion at its rear side, of a rocking

tube mounted in said tubular portion of said plate or frame, a torsional wire rod extending into said tube longitudinally and connected thereto so as to rock therewith, said rod having a flattened-out, thin, right-angular integral portion to form a creasing arm and which arm is provided with an integral creasing part or finger, and a creasing lip with which said finger co-operates. 20 25

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

PERCY RAYMOND GREIST.

Witnesses:

HENRY CALVER,
ARTHUR W. CALVER.