

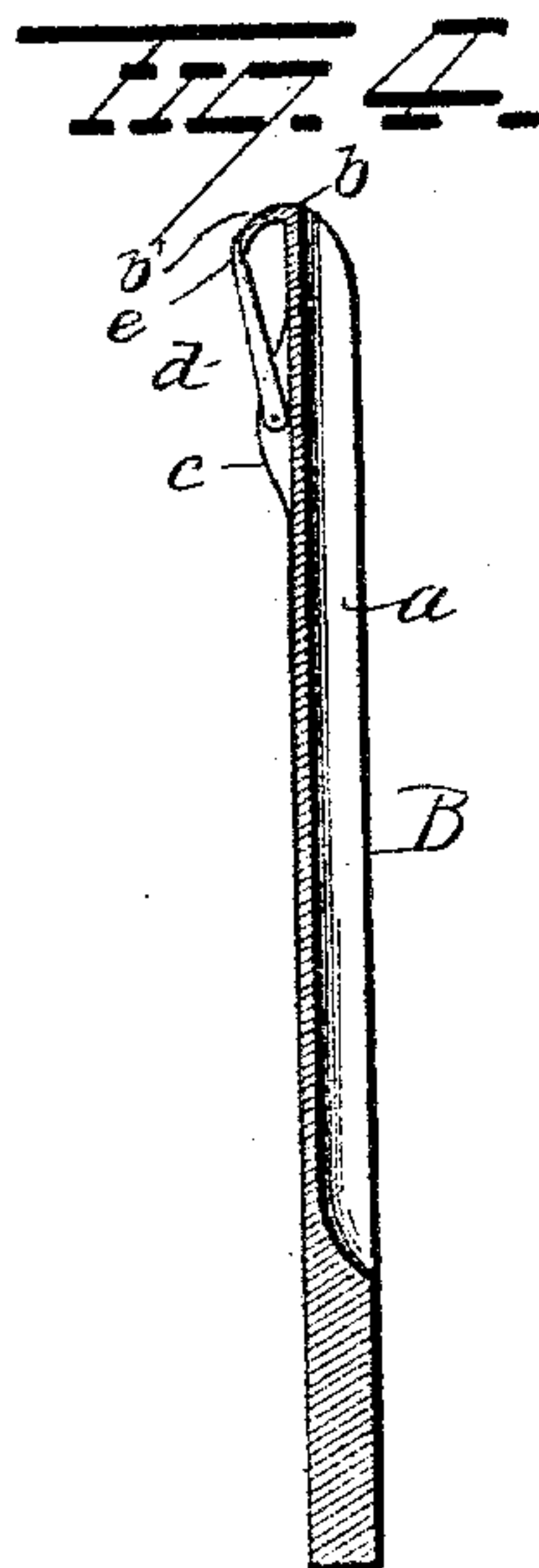
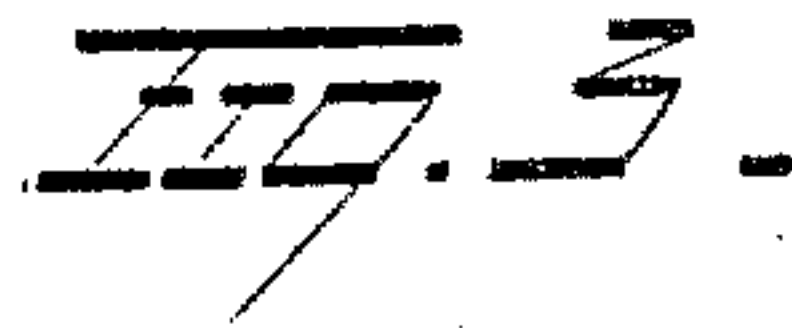
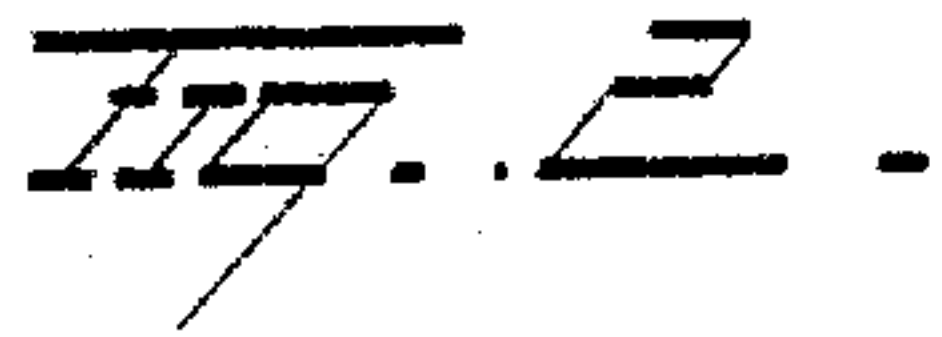
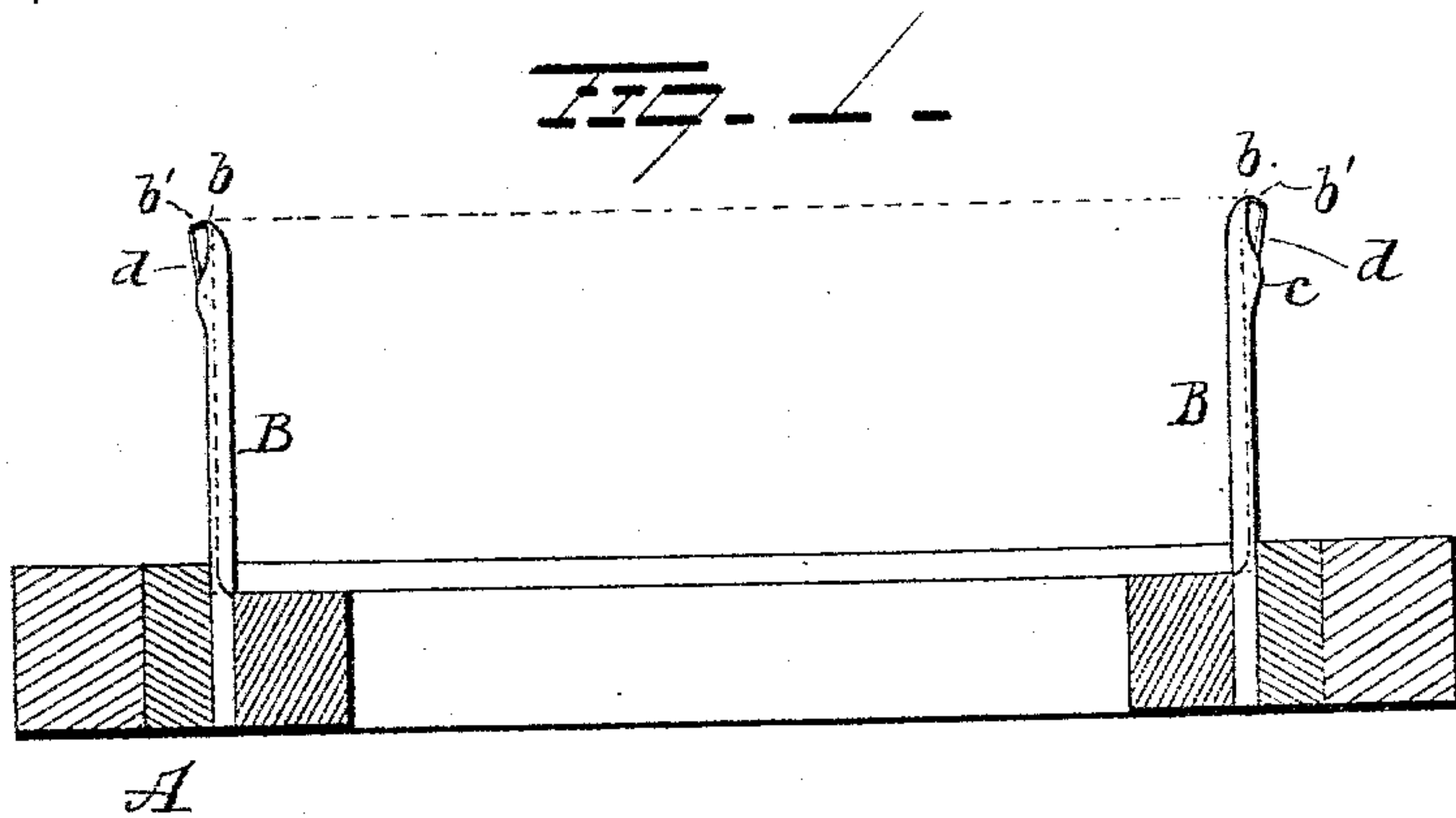
(No Model.)

W. G. CHISOLM.

TRANSFERRING DEVICE FOR KNITTING MACHINES.

No. 571,554.

Patented Nov. 17, 1896.



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM GREGG CHISOLM, OF CHARLESTON, SOUTH CAROLINA, ASSIGNOR
OF ONE-HALF TO T. L. DODD, OF SAME PLACE.

TRANSFERRING DEVICE FOR KNITTING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 571,554, dated November 17, 1896.

Application filed June 6, 1896. Serial No. 594,551. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM GREGG CHISOLM, a resident of Charleston, in the county of Charleston and State of South Carolina, have invented certain new and useful Improvements in Transferring Devices for Knitting-Machines; and I 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 appertains to make and use the same.

My invention relates to transferring devices for knitting-machines.

Heretofore it has been the practice in knitting certain kinds of goods (such as stockings) to knit a portion on one machine and then transfer the partially-knit article to another machine for completing it. It has been proposed to accomplish this transfer of the fabric by means of a series of grooved reeds or points held by a suitable base or block, said reeds or points corresponding in number with the needles of the machines. There is a strong liability of some of the stitches slipping off the reeds or points as heretofore constructed, thus necessitating considerable loss of time in picking up the dropped stitches and getting them back onto the transfer-points.

The object of my invention is to provide transfer devices which shall be so constructed as to prevent the stitches from slipping off of the same while the fabric is being raveled out down to the proper course after the stitches are on the transfer-points, thus resulting in a considerable saving of time in effecting the transfer, reducing the cost thereof, and improving the quality of the work.

A further object is to construct transfer devices for knitting-machines which shall be simple, easy to manipulate, and effectual in all respects in the performance of their functions.

With these objects in view the invention consists in a transfer reed or point for knitting-machines having a hook at its free end.

The invention further consists in a transfer reed or point having a protected hook at its free end.

The invention further consists in a grooved transfer-reed having a hook at its pointed extremity.

The invention further consists in the combination, with a transfer reed or point, of a hook at the free extremity thereof, and a pivoted latch adapted to engage the free end of said hook; and the invention further consists in certain novel features of construction and combinations and arrangements of parts, as hereinafter set forth, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view showing my improved transferring device ready for use. Fig. 2 is a detail view of one of the reeds or points, showing the position of the latch when the device is ready to receive the stitch of the fabric. Fig. 3 is a detail view of one of the reeds or points when the stitch of the fabric is to be discharged from the device. Fig. 4 is an enlarged detail view of one of the reeds.

A represents a suitable block or base, to which an annular series of reeds B are secured, said reeds corresponding in number with the needles of the knitting-machine in connection with which my improvements are to be employed, and each reed is made with a longitudinal groove *a* for the reception of the needles of the knitting-machine, and also, preferably, with a pointed end *b*, whereby to permit said reeds to readily enter the stitches of the fabric.

Each reed B is provided on its back, at the pointed end thereof, with a hook *b'* for preventing the accidental escape of the fabric from the reeds. The back of each reed is also provided with flanges *c*, between which a latch *d* is pivotally attached, the free end of said latch being made with a recessed head or end *e* for the reception of the free end of the hook *b'*.

In using the device it will be placed on the needles of a knitting-machine in the usual manner and the stitches will be moved back on the reeds past the ends of the latches, as shown in Fig. 2. The fabric will now be pulled off the reeds, and in the act of so doing the stitches will engage the latches and turn them, so as to cause them to cover the points of the hooks *b'* and thus be permitted to move freely off of the reeds onto the needles of the knitting-machine.

My improvements will prevent the stitches

from coming off of the reeds and thus save considerable time in doing the work of transferring and necessarily reduce the cost, and at the same time improve the quality of the work. My improvement will also allow the doubling of stitches on the transfer-reeds in very fine work, which is difficult and unsatisfactory with transfer-reeds now in use.

My improvements are simple in construction and effectual in all respects in the performance of their functions.

Slight changes might be made in the details of construction of my invention without departing from the spirit thereof or limiting its scope, and hence I do not wish to limit myself to the precise details of construction herein set forth.

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

1. A transfer-reed having a groove in one side adapted to receive the needle of a knitting-machine and a hook projecting from the

free extremity of the reed at the opposite side thereof from the groove, substantially as set forth.

2. A transfer-reed having a longitudinal groove in one side and a latched hook on the opposite side, substantially as set forth.

3. In a transferring device for knitting-machines, the combination with a grooved reed adapted to receive a needle of the knitting-machine, a hook at the free end of said reed, flanges on said reed, and a latch pivoted between said flanges and adapted to protect the end of the hook so as to permit the fabric to be moved freely off of said reed, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

WILLIAM GREGG CHISOLM.

Witnesses:

L. R. FITZSIMONS,

JNO. T. RAFFERTY.