

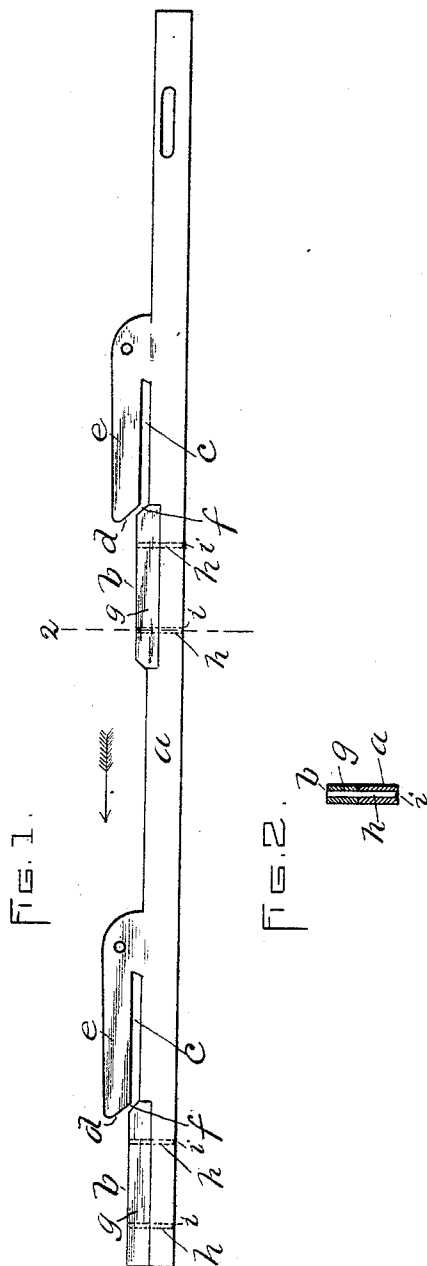
(No Model.)

E. J. PEASLEE.

NEEDLE DEPRESSING SLIDE FOR KNITTING MACHINES.

No. 498,023.

Patented May 23, 1893.



WITNESSES:

Horace Brown
Edmund McDonald

INVENTOR:

E. J. Peaslee
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ATTYS.

UNITED STATES PATENT OFFICE.

EDWIN J. PEASLEE, OF ASHLAND, ASSIGNOR OF ONE-HALF TO GEORGE W. COLE, OF LAKEPORT, NEW HAMPSHIRE.

NEEDLE-DEPRESSING SLIDE FOR KNITTING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 498,023, dated May 23, 1893.

Application filed March 9, 1892. Serial No. 424,303. (No model.)

To all whom it may concern:

Be it known that I, EDWIN J. PEASLEE, of Ashland, in the county of Grafton and State of New Hampshire, have invented certain new and useful Improvements in Needle-Depressing Slides for Knitting-Machines, of which the following is a specification.

In some kinds or types of knitting machines which are adapted to produce fashioned fabrics; that is, fabrics which are narrowed and widened at points; the needles relieved of stitches are thrown out of action by depressing them out of line with the operative needles, and in widening the fabric needles are brought into action by raising them into operative position.

The means for accomplishing this result is a slide provided with a raised portion, and a slot formed in a plane below such raised surface, an inclined slot connecting the raised surface with the lower slot, so that as the slide is moved in one direction it will engage the needles, which will pass down the incline into the slot, and lower the same out of action; and when the slide is moved in the opposite direction the needles will ride up the incline upon the raised surface and be brought into action.

A difficulty and objection has been experienced in the use of this device in that the slides wear on their raised surfaces so as to allow the needles to drop, resulting in imperfect work, and frequent costly repairs.

By my improvements this difficulty and objection is overcome, my invention consisting in fitting the slide with a piece or strip of porcelain, hardened steel or other wear-resisting material of high grade set in a recess at the points where the raised surfaces are provided on the slides, one end of said strip being inclined to form the cam for lifting the needles into action, all as is hereinafter more fully set forth and claimed.

Reference is to be had to the accompanying drawings and letters marked thereon, forming a part of this specification.

In the said drawings: Figure 1, is a front elevation of a slide embodying my improvements. Fig. 2, is a sectional view taken on line 2—2 of Fig. 1.

In the drawings: *a* designates the slide which is adapted, in the present instance, to operate two sets of needles to raise and depress the same in the operation of narrowing and widening.

b designates the raised surface upon which the needles are supported when in operative position, and *c* is a horizontal slot into which the needles pass and in which they are held to render them inactive when relieved of their loops.

When the slide *a* is moved in the direction of the arrow (Fig. 1), the shanks of the needles resting on the raised surface *b* will be engaged by the incline *d* of the projecting portion *e*, and glide down the inclined slot *f* into the horizontal slot *c*; and when the slide is moved in the opposite direction, the needles in the slot *c* will be raised by the inclined end of the block *g* and supported on the surface *b*, all as will be understood without further description.

At points where the needles are supported in raised position by the slide, I file or cut down the latter to a proper extent, forming recesses as shown, and fit therein pieces or blocks *g* of porcelain, hardened steel or other material having high-grade wear-resisting properties, the end of each block *g* being inclined as shown, thus forming a cam surface for raising the needles into action. The blocks or pieces *g* may be secured in position by securing pins *h* to said pieces and extending them through holes formed in the slides therebelow. The pins *h* may be secured against removal by soldering them in place as at *i*. By this means one block serves two purposes, viz:—lifts the needles into action and prevents them from unduly wearing the slide while in action, and obviates the necessity of frequent expensive repairs and liability of imperfections in the work of the machine. Should one of the blocks or pieces *g* break, it may readily be taken off and a new one put in its place without considerable delay.

Having thus described the nature of my invention and explained a way of constructing and using the same, though without attempting to set forth all the forms in which it

may be made or all of the modes of its employment, I declare that what I claim is—

1. A needle depressing slide for knitting machines having the horizontal slot *c* and
5 provided in its edge adjacent thereto with a recess, and a piece or block *g* of high wear-resisting properties, set into and secured in said recess, the end of said block *g* nearest
10 the slot *c* being inclined to form a wear-resisting cam surface, as set forth.

2. A needle-depressing slide for knitting machines having the horizontal slot *c* and provided in its edge adjacent thereto with a recess, and a piece or block *g* of high wear-

resisting properties set into said recess, the
15 end of said block *g* nearest the slot *c* being inclined to form a wear resisting cam surface, and pins connected with the block extending through the slide and secured thereto, as set forth. 20

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 19th day of February, A. D. 1892.

EDWIN J. PEASLEE.

Witnesses:

SAMUEL C. SHEPARD,
FRANCIS M. HUGHES.