(No Model.)

# G. W. BAKER.

## SLIDE FOR SEWING MACHINES.

No. 423,112. Patented Mar. 11, 1890.

Fig. 1

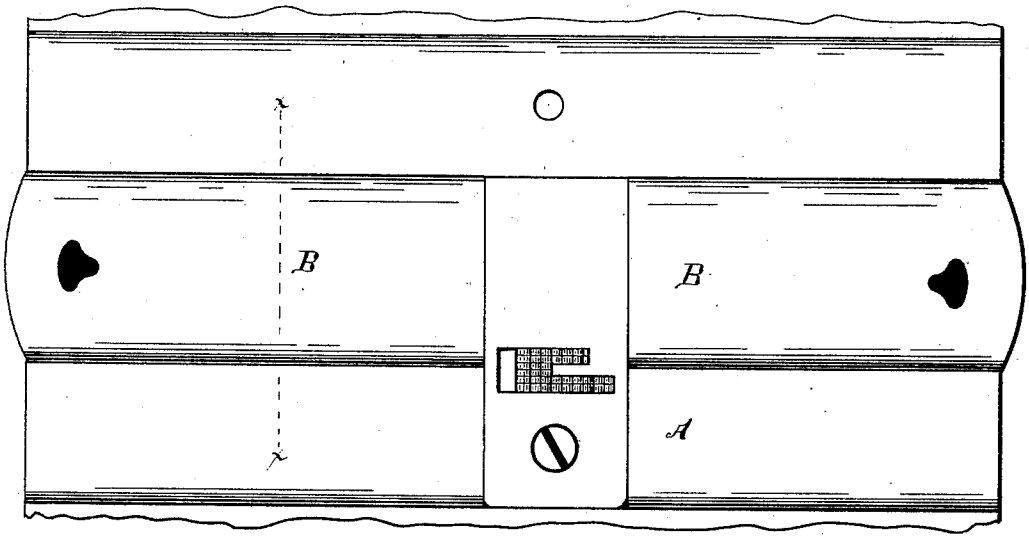


Fig. 2

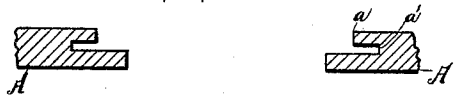


Fig. 3

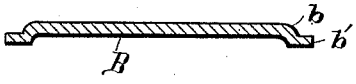


Fig. 4

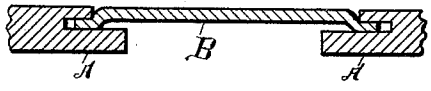


Fig. 5


Witnesses
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# UNITED STATES PATENT OFFICE.

GEORGE W. BAKER, OF CLEVELAND, OHIO, ASSIGNOR TO THE WHITE SEWING MACHINE COMPANY, OF SAME PLACE.

## SLIDE FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 423,112, dated March 11, 1890.

Application filed August 1, 1889. Serial No. 319,469. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE W. BAKER, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Slides for Sewing-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 pertains to make and use the same.

My invention relates to improvements in slides for sewing-machines; and it consists in certain features of construction and in combination of parts, hereinafter described, and pointed out in the claims.

Heretofore the practice has been to provide the slide with tongues along the edges thereof, these tongues being beveled to a thin sharp edge, with corresponding V-shaped grooves in the internal edges of the face-plate to receive the tongues. With such construction the difficulty was that the milling-tool for cutting such grooves, owing to the extreme sharp thin edges thereof, could not be kept to standard size, and consequently the slide had to be fitted by hand and was not interchangeable; hence if a slide was lost there was no surety that another slide sent out from the factory would fit. The cost, too, of fitting these slides was considerable. To overcome such difficulties, I have devised the slide illustrated in the accompanying drawings.

Figure 1 is a plan. Figs. 2, 3, and 4 are enlarged elevations in section in detail. Fig. 5 is an edge view of the slide.

A represents a portion of a sewing-machine, and B B the slides. The slides are struck up from thin plate metal, the thickness of the slides, as shown in the drawings, being considerably exaggerated. The slides have shoulders or offsets *b*, and have square-edged tongues *b'* along the sides of the slide. The internal edges of the cloth-plate are grooved at *a'* to receive tongues *a* with an easy fit, these grooves being rectangular in cross-section, and are made so deep that the tongues do not strike bottom in the grooves. Shoulders *b* of the slide abut with an easy fit shoulders *a* of the cloth-plate. The milling-tool for cutting grooves *a'*, being square-edged, will cut a large number of grooves, remaining meantime approximately standard size, and if the grooves should vary a trifle in depth it will not interfere with the working of the slide. With such construction there is found no difficulty in making the slides interchangeable, and that, too, without refitting. The slide fits easily in its place, and to prevent its moving too freely the slide is slightly curved lengthwise. This curvature is so slight that it would not be perceptible in the drawings, and is therefore shown in Fig. 5 exaggerated. The slide is thin and elastic, and straightens out as it enters the groove, the tension of the slide being sufficient to hold it from moving too freely.

What I claim is—

1. A slide for sewing-machines, having square-edged tongues along the sides thereof, the lower faces of the tongues being in a plane below the lower face of the slide, the internal edges of the cloth-plate having corresponding grooves rectangular in section for receiving the tongues, the slides being offset, and the external shoulders thereof engaging the opposing edges of the cloth-plate, substantially as and for the purpose set forth.

2. A slide for sewing-machines, slightly curved in the direction of its length and provided at its longitudinal side edges with square-edge tongues, the lower faces of the latter being in a plane below the bottom face of the slide-plate, substantially as set forth.

In testimony whereof I sign this specification, in the presence of two witnesses, this 15th day of June, 1889.

GEORGE W. BAKER.

Witnesses:

CHAS. H. DORER,

ALBERT E. LYNCH.