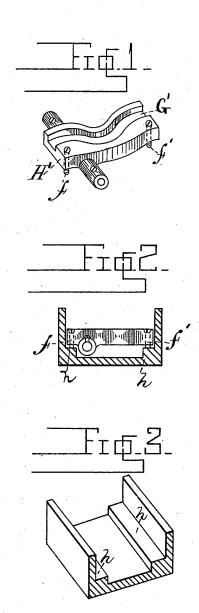
(No Model.)

D. L. KEELER.

SEWING MACHINE.

No. 306,083.

Patented Oct. 7, 1884.



JARlackwoods Rheede DiBois David L Keeler by M. Woodlitcher ATTORNEY

UNITED STATES PATENT OFFICE.

DAVID L. KEELER, OF GRAND RAPIDS, MICHIGAN.

SEWING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 306,083, dated October 7, 1884.

Application filed December 26, 1883. (No model.)

To all whom it may concern:

Be it known that I, DAVID L. KEELER, a citizen of the United States, residing at the city of Grand Rapids, in the county of Kent 5 and State of Michigan, have invented certain new and useful Improvements in Sewing-Machines, of which the following is a specifica-

The object of this invention is to give a 10 steady and easy motion to the cross-head and to provide means of adjusting the same. Iattain this object by means of the mechanism illustrated in the accompanying drawings, in which-

Figure 1 is a perspective view of the grooved cross-head with a portion of the needle-bar attached. Fig. 2 is an end view of the cross-head shown in Fig. 1, with section of needle-bar. Fig. 3 is a section of the face-plate of 20 the machine with a perspective view of the

ways on which the cross-head travels. Similar letters refer to similar parts throughout the several views.

H' is the cross-head, provided with a cam-25 groove, G', and is rigidly attached to the needle-bar in the usual manner, and is operated as is done in machines in use. f and f' are two screws passing through the cross-head and

projecting a short distance on the other side, the projecting ends being constructed to travel 30 on the ways h h of Fig. 3—that is, the part shown by Fig. 1 is made to fit into the part shown by Fig. 3—so that f and f' will rest on ways h h. By this construction any wear that there may be between the screws f and f' and 35 ways h h may be taken up by merely turning the screws, and by this means a smooth closeworking fit is always maintained.

Having thus described my invention, what I claim to have invented, and desire to secure 40

by Letters Patent, is-

The face-plate of a sewing-machine, formed with ways hh, in combination with the needle-bar, the cross-head H', secured to said needle-bar, and two screws, ff', on the two ends 45 of the said cross-head, which screws bear against the ways h h of the face-plate and are adjustable thereto, whereby the wear may be taken up on both ends or either end of the cross-head between the screws f f' and the 50 ways h h, substantially as set forth.

DAVID L. KEELER.

Witnesses: FRED W. STEVENS, EDWARD TAGGART.