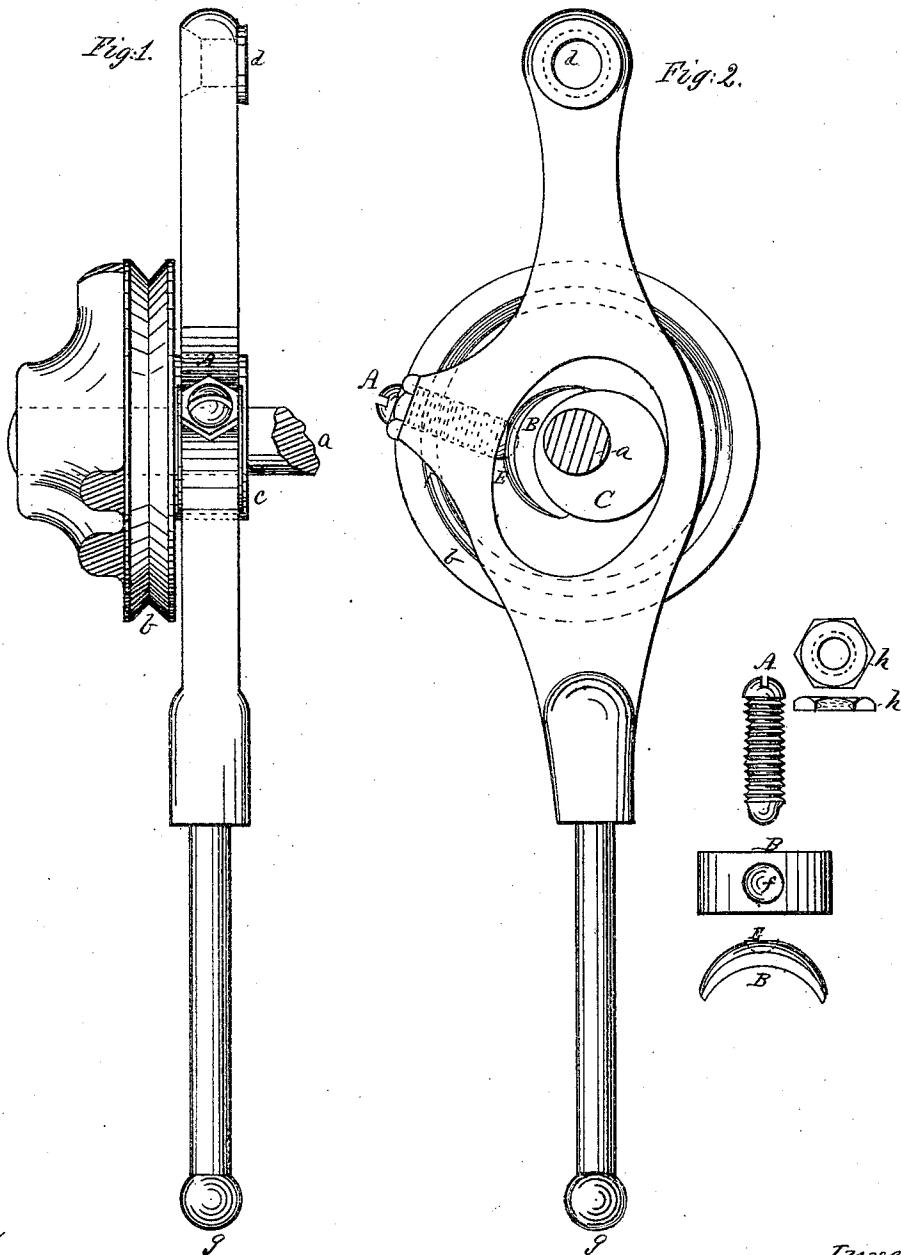


J. L. HINDS.
Sewing-Machine.

No. 131,166.

Patented Sep. 10, 1872.



Witnesses.

H. S. Moody
Jno. M. Sigamy

Inventor

Jesse L. Hinds

UNITED STATES PATENT OFFICE.

JESSE L. HINDS, OF WATERTOWN, NEW YORK, ASSIGNOR TO DAVIS SEWING-MACHINE COMPANY, OF SAME PLACE.

IMPROVEMENT IN SEWING-MACHINES.

Specification forming part of Letters Patent No. 131,166, dated September 10, 1872.

Specification describing certain Improvements in the "Davis" Sewing-Machine, invented by JESSE L. HINDS, of the city of Watertown, in the county of Jefferson and State of New York, and which improvements are also applicable to all other machines which are provided with the same or a similar device as that of the "Davis" for driving the shuttle.

My invention relates to an improvement in the construction of that part of the "Davis" sewing-machine which, by common usage, is called the "back hanger," and is intended to obviate a difficulty in the use of said machine which is set forth hereinafter. The friction of the parts of the hanger causes wear, and a consequent loss of motion, resulting in the inaccurate working of the machine. My invention obviates this difficulty; and in the following description reference is had to the accompanying drawing, with the letters of reference marked thereon.

Figures 1 and 2 are views of the hanger detached from the machine and provided with my improvement.

The hanger has a swinging motion, the pivotal point being at *d*, and is driven by the eccentric or cam *C*, turning with its shaft *a*. The hanger operates the shuttle of the machine by means of proper connections made at the ball *g*. *B* is a friction-saddle, and the principal feature of my improvement. *A* is a set-screw,

which keeps the saddle to its proper position on the cam or eccentric *C*. The set-screw is provided with the lock-nut *h*. The saddle has a socket at *f*, corresponding in form to the hemispherical end of the screw *A*, which fits into it, thus making a ball-and-socket joint. In the hanger as now constructed the slot in which the cam *C* revolves has a small projection or cam in the form of a flattened *V*. This cam becomes worn in use by the friction of the cam *C*, for which wear the only remedy is a renewal of the part so worn. The friction-saddle *B* having a much larger frictional surface than the above-mentioned *V*-cam, the friction between these parts is distributed in my improvement over a much greater surface, the wear is proportionately reduced, and postponed in time. In case sufficient wear does occur to cause a loss of motion, the easy and simple remedy is a proper adjustment of the saddle *B* to the cam *C* by means of the set-screw *A*.

I claim as my invention—

The combination, with the slotted hanger and the eccentric, of the saddle and holding screw or pin, all operating as and for the purpose set forth.

JESSE L. HINDS.

Witnesses:

M. T. MOODY,
JNO. M. SIGOURNEY.