(No Model.)

J. HERRBURGER.

DAMPER FOR UPRIGHT PIANOS.

No. 367,521. Patented Aug. 2, 1887.

FIG. 1

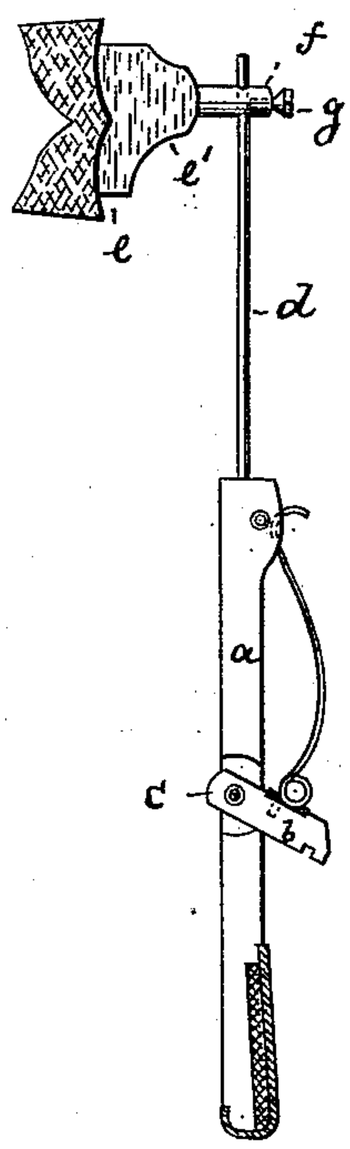


FIG. 2

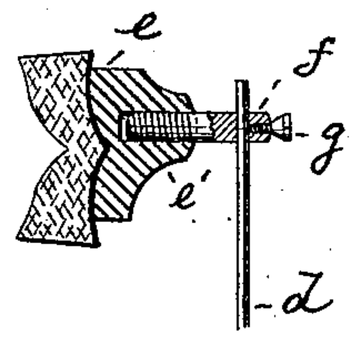


FIG. 3

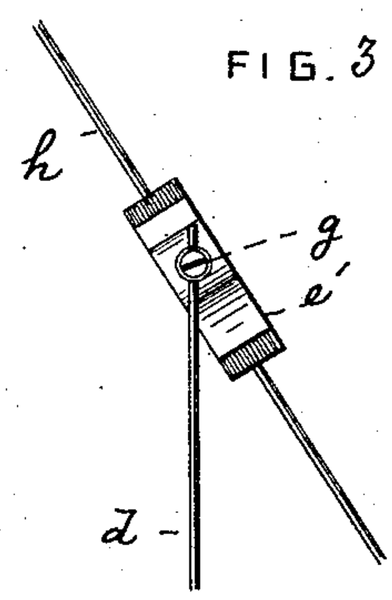
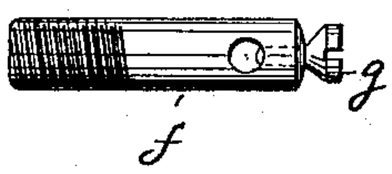


FIG. 4



WITNESSES

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JOSEPH HERRBURGER, OF PARIS, FRANCE.

DAMPER FOR UPRIGHT PIANOS.

SPECIFICATION forming part of Letters Patent No. 367,521, dated August 2, 1887.

Application filed June 7, 1887. Serial No. 240,515. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH HERRBURGER, of Paris, France, but temporarily a resident of the city of New York, county and State of New York, have invented a new and Improved Damper for Upright Pianos, of which the following specification is a full, clear, and exact description.

This invention relates to an improvement upon Letters Patent No. 350,625, granted to me October 12, 1886. In that patent I have shown the damper-head to be connected to the wire-carrying stud by means of an intermediate block. I now dispense entirely with the block; and in order to permit the head to be set at any desired angle to the wire I make the stud circular in cross-section, instead of square, thus permitting the angle to be changed by a slight turning of the stud.

The invention consists in the features of improvement, more fully pointed out in the claim.

In the accompanying drawings, Figure 1 is a side view of my improved damper. Fig. 2 is a longitudinal central section thereof. Fig. 3 is a top view thereof, and Fig. 4 a detail side view of the stud.

The letter *a* represents the damper-lever attached to hammer-rail by flange *b*, pivoted at *c*, the lever carrying the damper-wire *d*, all as usual. The damper proper consists of two parts, a cushioned wooded head, *e*, which has a reduced end, *e'*, and of a screw-threaded metal pin or stud, *f*, which is received by a correspondingly-threaded mortise of the reduced end *e'*. The upper or free end of the stud *f* is provided with a transverse perforation to receive the end of the wire *d*. This wire is held in place by a clamp-screw, *g*, that passes into stud *f*, as shown. The stud *f* should be circular in cross-section. In order to incline the head to the string *h*, Fig. 3, it is simply necessary to slightly turn the stud in its screw-threaded socket. The threads of the stud should be finely cut, so that a slight turn will not noticeably raise or lower the damper; but, if necessary, the wire *d* may be slightly bent to compensate for the changed position of the damper. By this construction I dispense entirely with an intermediate block and produce an easily-adjustable damper.

I claim as my invention—

The combination of cushioned damper-head *e*, with the round screw-threaded stud *f*, received within a screw-threaded mortise of said head and provided with a transverse perforation, and with the set-screw *g*, substantially as specified.

JOSEPH HERRBURGER.

Witnesses:

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