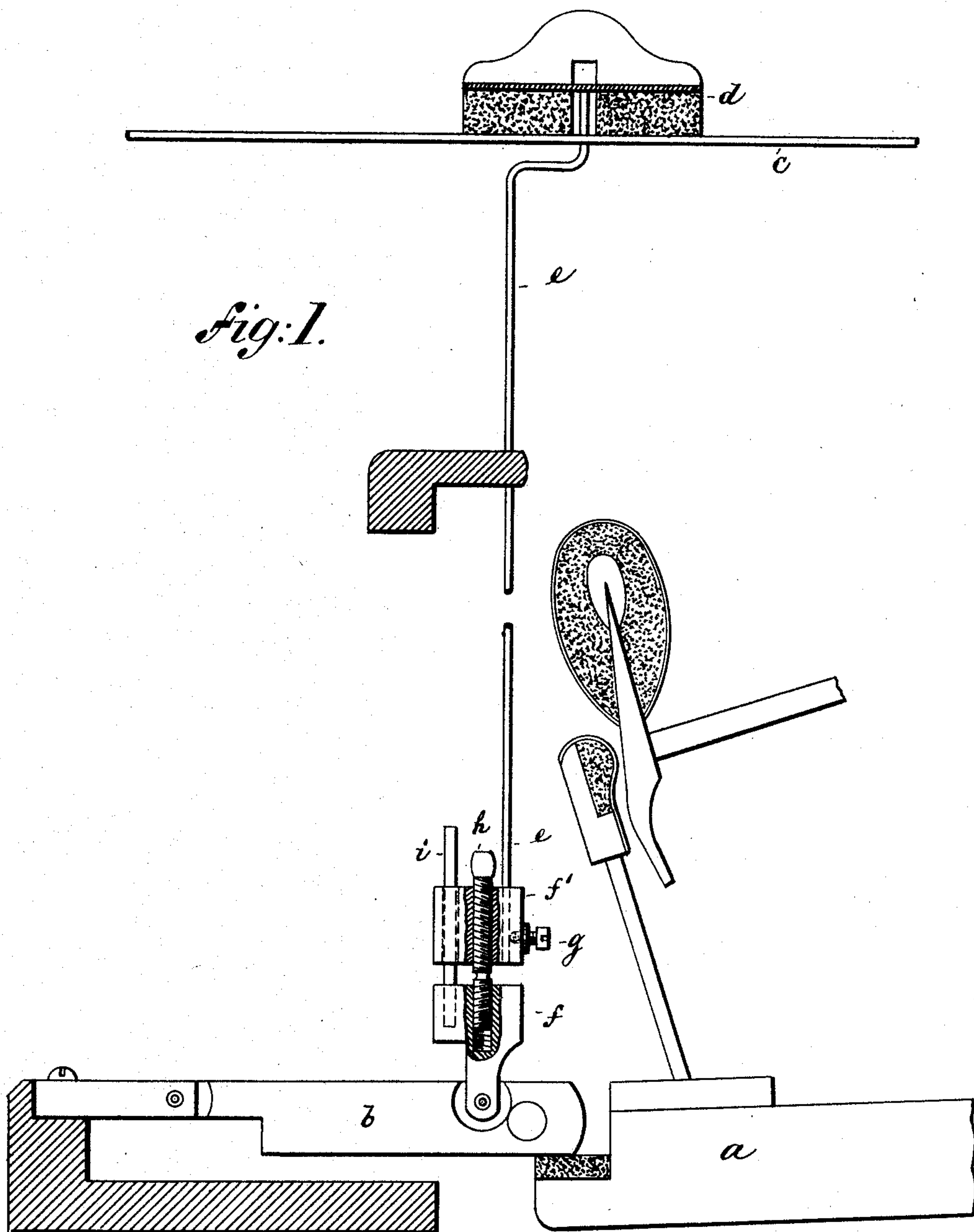


(No Model.)

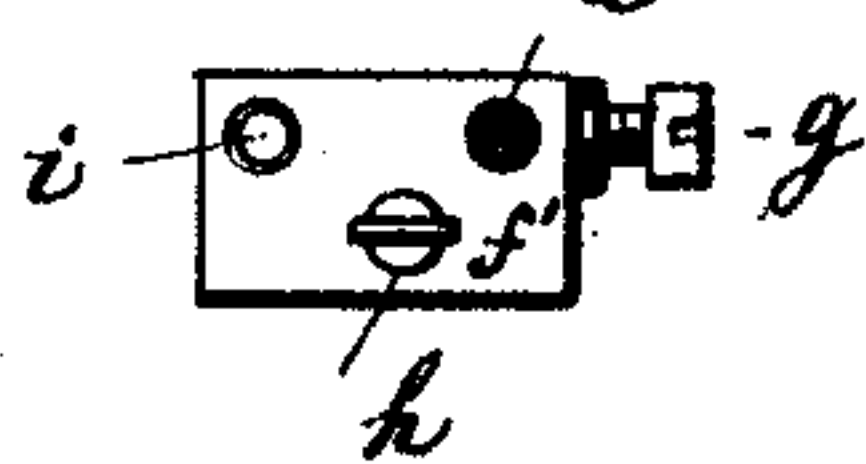
E. BORNHOEFT.  
DAMPER REGULATOR FOR PIANO ACTIONS.

No. 504,906.

Patented Sept. 12, 1893.



*Fig:2.*



WITNESSES:  
*A. Fehrl.*  
*Wm. Schuch.*

INVENTOR  
*E. Bornhoeft*  
BY *Roeder & Bienen*  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

EDWARD BORNHOEFT, OF NEW YORK, N. Y., ASSIGNOR TO STRAUCH BROS.,  
OF SAME PLACE.

## DAMPER-REGULATOR FOR PIANO-ACTIONS.

SPECIFICATION forming part of Letters Patent No. 504,906, dated September 12, 1893.

Application filed April 27, 1893. Serial No. 472,016. (No model.)

*To all whom it may concern:*

Be it known that I, EDWARD BORNHOEFT, a citizen of the United States, and a resident of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Damper-Regulators for Piano-Actions, of which the following is a specification.

This invention relates to an improved means for readily regulating the elevation of the damper over the string of a grand piano action.

In the accompanying drawings, Figure 1 is an elevation partly in section of my improved damper regulator; Fig. 2 a top view of the block, showing the damper wire in section.

The letter *a*, represents the key of a grand action; *b*, is the damper lever; *c*, the string, and *d*, the damper, all as usual.

To the damper lever *b*, there is pivoted the damper block, to which the lower end of the damper wire *e*, is secured. This block I do not make in one piece as usual, but in two pieces or sections *f*, and *f'*. Of these sections, the lower one is pivoted to the lever *b*, while the upper one is perforated for the reception of the lower end of wire *e*, secured in place by set screw *g*. The sections *f*, *f'*, are tapped in opposite directions for the reception of a right and left screw *h*, as shown. A guide rod *i* that prevents the upper section from revolving, when the screw is turned, passes through both the sections *f*, *f'*.

In order to adjust the damper *d*, it is only necessary to turn the screw *h*, in either direction. This will raise or lower the upper section *f'*, and with it the damper wire and damper in a most simple manner, which moreover permits the most delicate adjustment.

What I claim is—

1. A damper regulator consisting of a sectional adjustable block of which one section is pivoted to the damper lever and the other section is connected to the damper wire, substantially as specified.

2. A damper regulator consisting of a sectional adjustable block and of a right and left screw engaging the two sections of the block, substantially as specified.

3. A damper regulator consisting of a sectional adjustable block, a right and left screw, a guide rod engaging the two sections of the block and a clamp screw for securing the damper wire to the upper section, substantially as specified.

Signed at New York, in the county of New York and State of New York, this 22d day of April, A. D. 1893.

EDWARD BORNHOEFT.

Witnesses:

WILLIAM HENDERSON,  
W. E. STRAUCH.