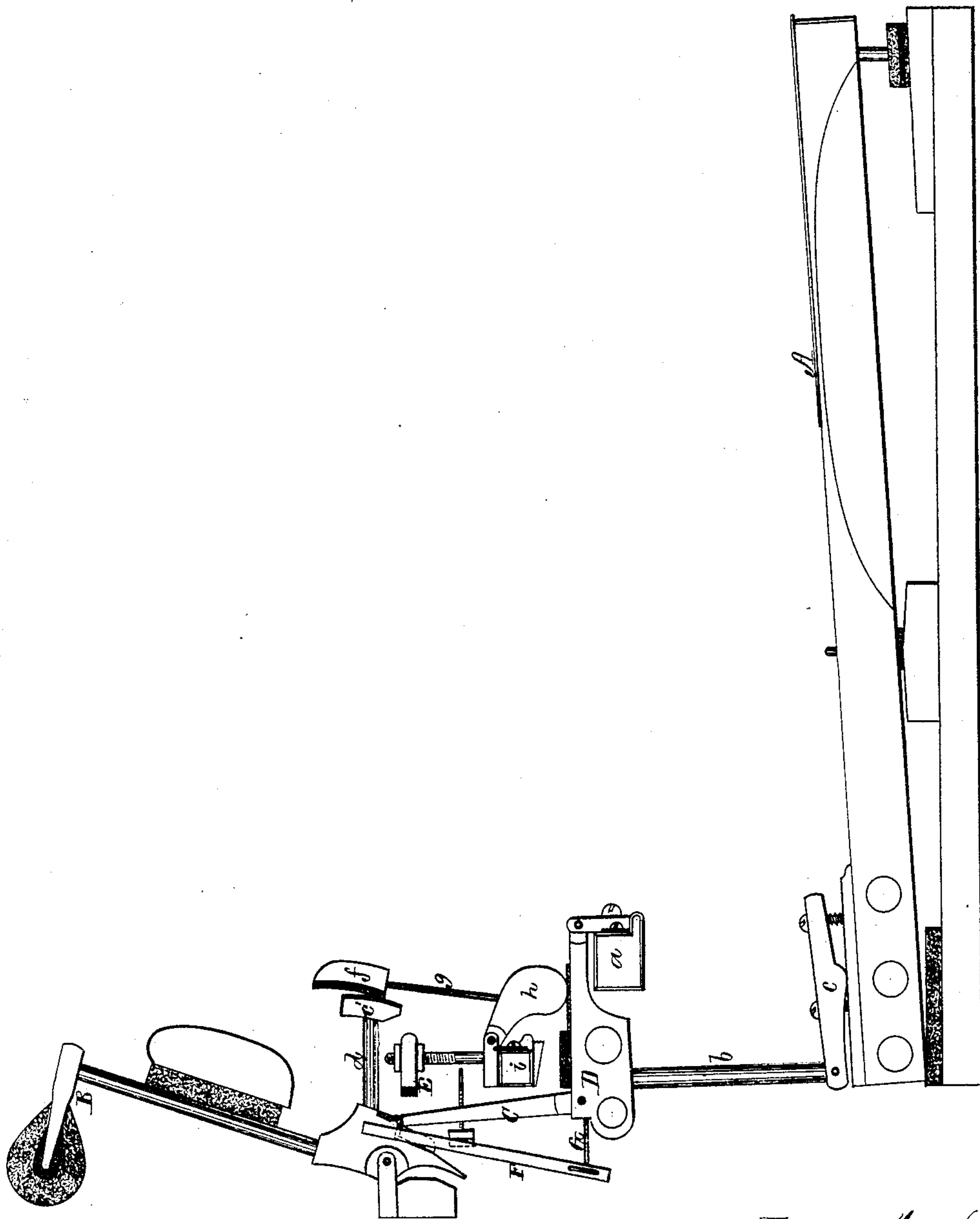


G. W. NEILL.
Upright-Piano Action.

No. 197,526.

Patented Nov. 27, 1877.



Witnesses
S. N. Piper
L. H. Miller

Twentor
George W. Neill
by his attorney
R. H. Sully

UNITED STATES PATENT OFFICE.

GEORGE W. NEILL, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN UPRIGHT-PIANO ACTIONS.

Specification forming part of Letters Patent No. **197,526**, dated November 27, 1877; application filed October 10, 1877.

To all whom it may concern:

Be it known that I, GEORGE W. NEILL, of Boston, of the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Actions for Upright Piano-Fortes; and do hereby declare the same to be described in the following specification and represented in the accompanying drawing, which exhibits a side elevation of my improved action.

My improvement consists in the combination of a stationary bar and a pivoted supporting-arm with the back-catch and the fly-supporting arm or bed, all being arranged essentially as set forth.

The advantages of the improvement over most, if not all, ordinary modes heretofore in practice for supporting the back-catch are, that it enables it to better sustain the hammer, and the latter to repeat with more certainty and useful effect.

In the drawings, A denotes the key; B, the hammer; C, the jack or fly, and D the bed or supporting-arm of such fly. This bed is pivoted to a stationary rest or bar, *a*, the fly being hinged to the bed at its front. The said bed rests on the top of a push-rod, *b*, which, at

its lower end, is pivoted to a rocker or adjustable lever, *c*, fixed to the key.

From the hinge-block of the hammer an arm, *d*, projects backward, and is provided with a head, *e'*, for the back-catch *f* to bear against. The wire *g* of the back-catch extends upward from a sustaining-arm, *h*, which, hinged to a stationary bar, *i*, rests on the bed D. The back-stop E of the fly is arranged over the bar *i*, as shown. A strap, F, extends down from the hinge-block of the hammer to, and is fixed to, a wire, G, projecting from the bed D.

The key being struck, the fly-bed will force upward the supporting-arm of the back-catch, which arm will fall with the said bed while the key may be in the act of rising.

I claim—

In an upright-piano action, the combination of the straining-bar *i* and the pivoted supporting-arm *h* with the back-catch and the fly-supporting arm or bed, all being arranged substantially as set forth.

GEORGE W. NEILL.

Witnesses:

R. H. EDDY,
JOHN R. SNOW.