

E. H. SCHOFIELD.
STOP-ACTION FOR REED-ORGANS.

No. 177,163.

Patented May 9, 1876.

Fig. 1

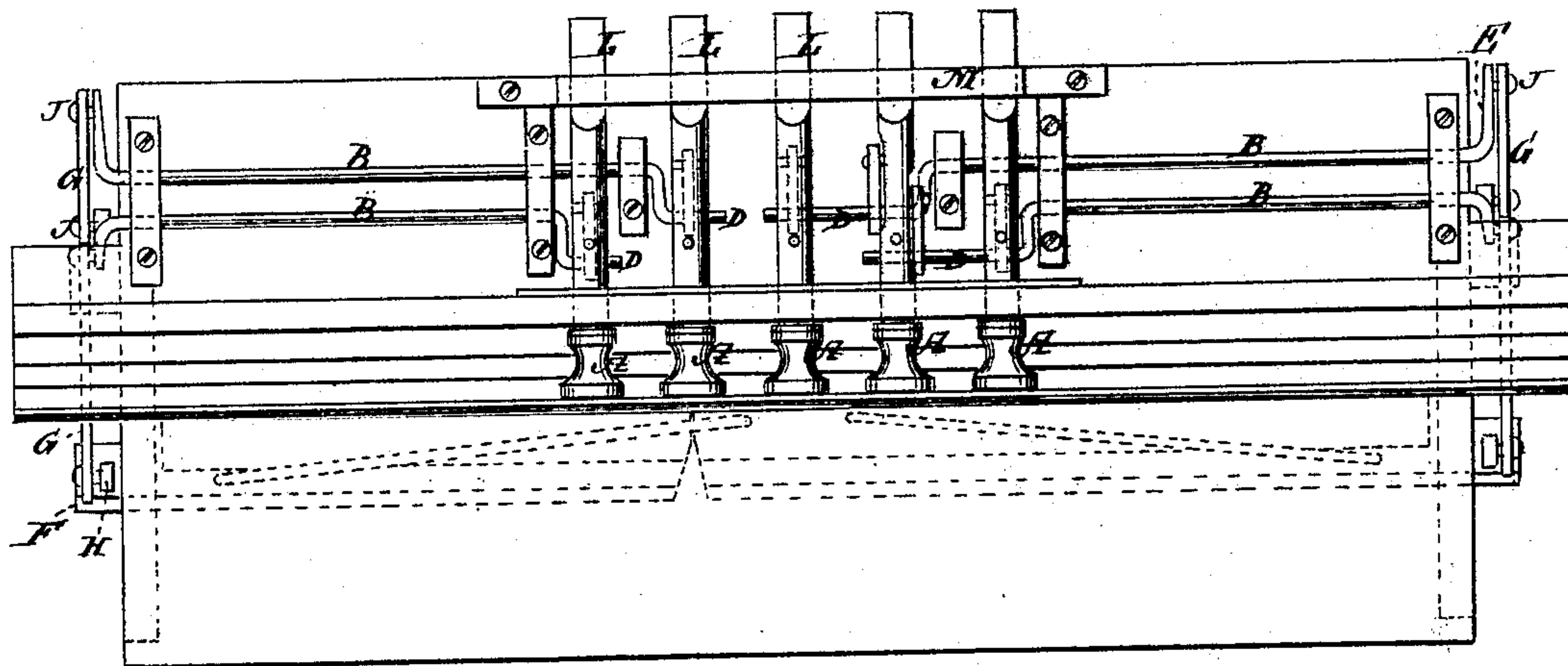
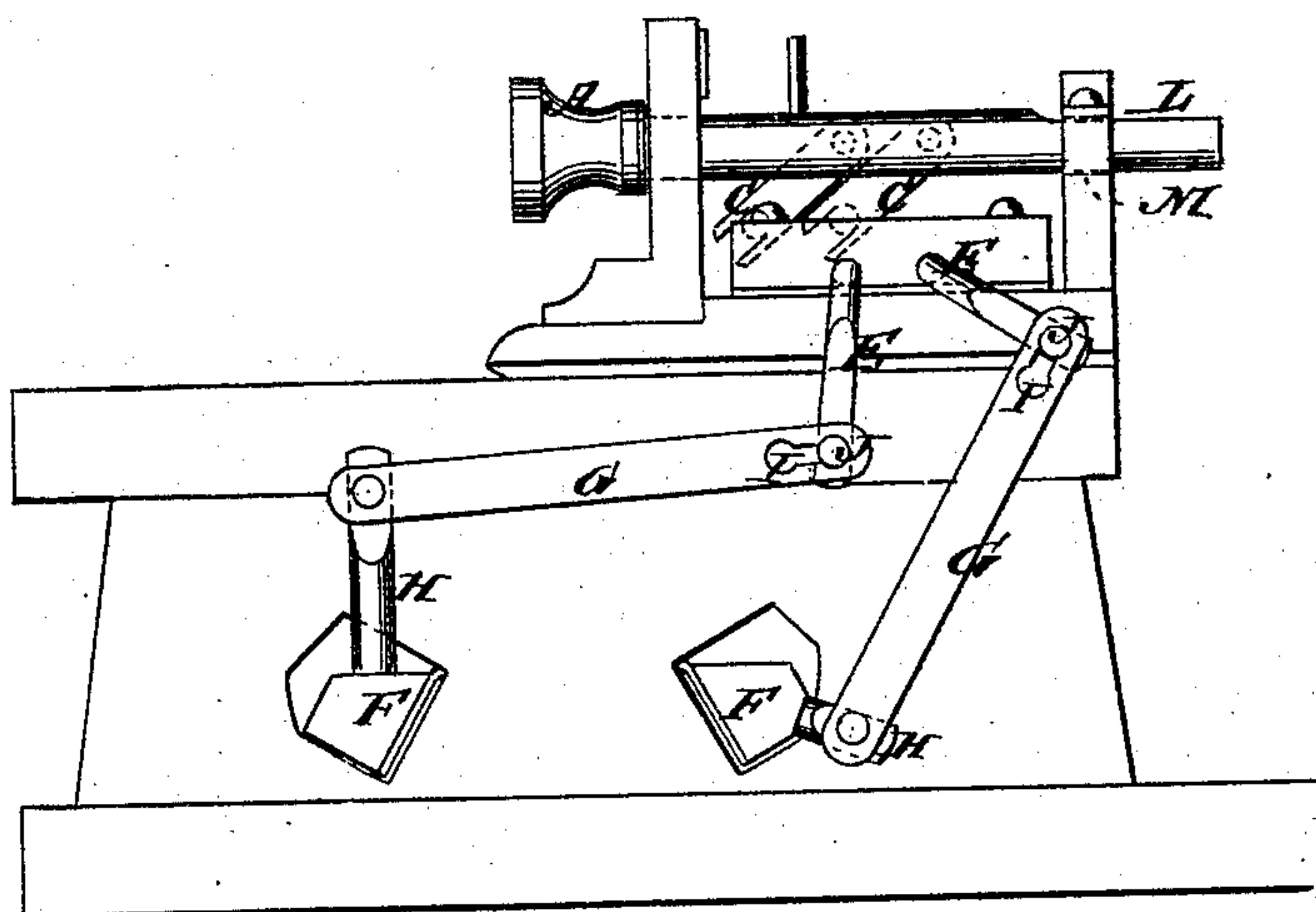


Fig. 2



WITNESSES:

E. Wolff
John Goethals

INVENTOR:

E. H. Schofield

BY

Murray

ATTORNEYS.

UNITED STATES PATENT OFFICE.

EUGENE H. SCHOFIELD, OF MENDOTA, ILLINOIS.

IMPROVEMENT IN STOP-ACTIONS FOR REED-ORGANS.

Specification forming part of Letters Patent No. **177,163**, dated May 9, 1876; application filed February 21, 1876.

To all whom it may concern:

Be it known that I, EUGENE H. SCHOFIELD, of Mendota, in the county of La Salle, and State of Illinois, have invented a new and Improved Stop-Action for Reed-Organs, of which the following is a specification:

The invention consists of the stop-draws connected by crank-shafts and connecting-rods with the valves in such manner that the action is better and the stop-draws may be located more closely together in the front board, and the latter may be shortened so as not to extend beyond the keys and thus not obstruct the sound so much as the board used in the common arrangement.

Figure 1 is a top view of my improved stop-action, and Fig. 2 is a side elevation.

Similar letters of reference indicate corresponding parts.

A represents the stops; B, the cranked shafts for working the valves by the stop-draw; C, pawls connecting the stop-draws to the cranks D; E, cranks on the other ends of the shafts for connecting to the valves F by rods G and arms H. The pawls C are pivoted at the upper end to the stop-draws, and at the lower end are forked so as to embrace the crank-pins in such manner as to move them by a pushing action only and allow the same crank to be worked by two or more stop-draws, so that the stop-draw not working will remain at rest while the crank is worked by another one of them.

Another feature of the arrangement is that the cranks are adjusted as nearly at right

angles to the pawls as may be, and the cranks E are the same as to connecting-rods G, and the arms H are arranged in like manner relatively to the valves, so that the easiest and softest motion attainable with such arrangement is secured.

The connecting-rods G are connected by button-hole slots I with headed studs J riveted in the cranks E, making a simple but efficient connection. The stop-valves extend beyond the action through the end boards to receive the connecting-rods outside of the same.

Besides being better than the common lever arrangement this action is cheaper to make and more durable. In order to prevent the stop-draws from turning they are flattened on the upper side, as at L, and the holes in the board M, by which they are confined, are correspondingly shaped.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination, with stop-draws A and stop-valves F, of the shafts B having cranks D E, the rods G, and the arms H, all arranged substantially as and for the purpose specified.

2. The stop-draws connected to the crank-shafts by the forked pawls C fitted on the cranks and pivoted to the stop-draws, substantially as specified.

EUGENE H. SCHOFIELD.

Witnesses:

WM. H. LIVERS,
H. J. SPROULE.