

M. Coburn,
Piano Attachment,
N^o 4,948. *Patented Feb. 1, 1847.*

Fig. 1.

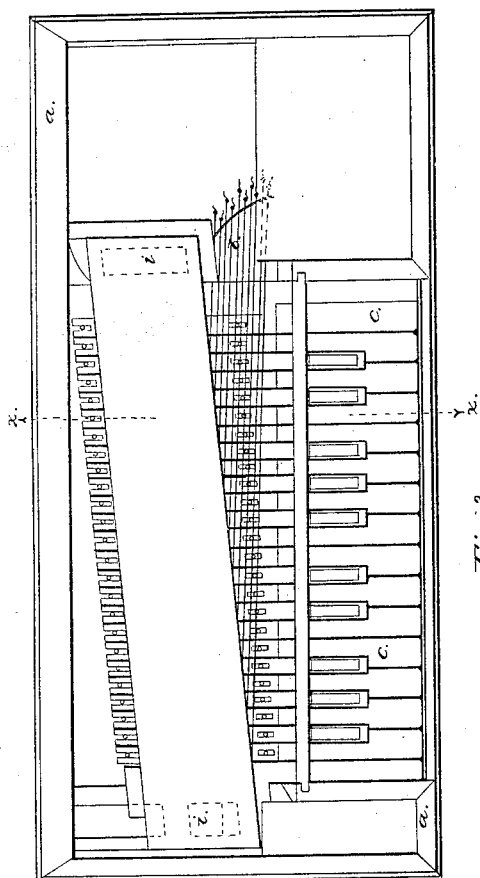
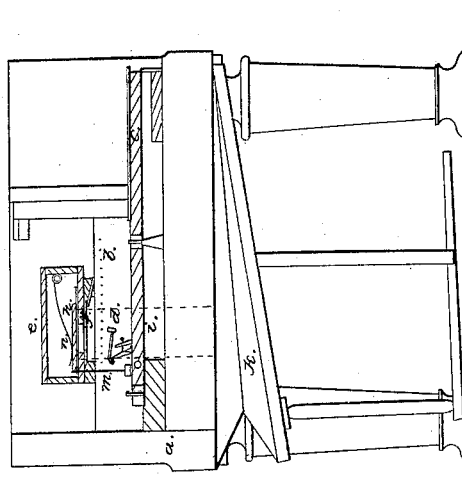


Fig. 2.



UNITED STATES PATENT OFFICE.

MOSES COBURN, OF SAVANNAH, GEORGIA.

IMPROVEMENT IN COMBINING METALLIC REEDS WITH PIANO-FORTES.

Specification forming part of Letters Patent No. 4,948, dated February 1, 1847.

To all whom it may concern:

Be it known that I, MOSES COBURN, of Savannah, in the county of Chatham and State of Georgia, have invented a new and useful Attachment to the Piano-Forte; and I do hereby declare that the following is a full, clear, and exact description of the principle or character that distinguishes it from all other things before known, and of the manner of making, constructing, and using the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a top plan, with the top of the case removed. Fig. 2 is a section taken at the line X X, Fig. 1.

The same letters indicate like parts in all the figures.

The nature of my invention consists in combining with a piano-forte of any known construction a set of metallic reeds similar to those used in accordions and other instruments of like character, said reeds being tuned to the strings of the piano-forte and being played by the same keys, so as to produce the combined effect of a wind and stringed instrument. It will be obvious that there are various modes of combining the two into one instrument. The one I have essayed is shown in the drawings, the parts of which are designated by letters of reference.

The case *a* of the instrument is like that of any ordinary piano, except that a little more space is allowed above the strings. *b* are the strings, *c* the keys, and *d* the hammers. Above the strings I place a long narrow box, *e*, that extends the whole length of the keys. In the bottom of this box the reeds *f* are situated, lying close to the springs, with sufficient space

for vibration, &c. Above each reed there is a valve, *h*, that opens into the box *e* above named, and when opened forms a communication between the box and reed. At each end of the box there is a communication, *i*, made down to a pair of bellows, *k*, placed under the case. These are of ordinary construction, and are worked by treadles placed beside the ordinary pedals of the piano, acted on by the foot of the performer. When the wind is forced into the box *e*, either of the reeds can be made to speak by means of the connection of its appropriate key with the valve *h* over the reed. This connection is made by a wire, *m*, that extends up from the rear end of the key to the valve, so that when the front end of the key is depressed and the rear end elevated by the performer, the string is struck by the hammer in the ordinary way, and the connecting-wire *m* at the same time raises the valve and causes the reed which is tuned to the string to speak. The valves *h* are kept closed by a spring, *n*, attached to the box inside and resting on it.

What I claim as my invention, and desire to secure by Letters Patent, is—

The employment of a series of metallic reeds tuned to the strings of a piano-forte, in combination with said strings, so as to be played upon by the same keys that act on the strings of the piano and at the same time, the whole being constructed as above set forth, or in any other manner substantially the same.

MOSES COBURN.

Witnesses:

GEO. W. WYLLY.

DANL. N. LAIN,

R. RAIFORD.