

A. S. Blake,

Hinge.

No. 93402.

Patented Aug. 10. 1869.

Fig. 1

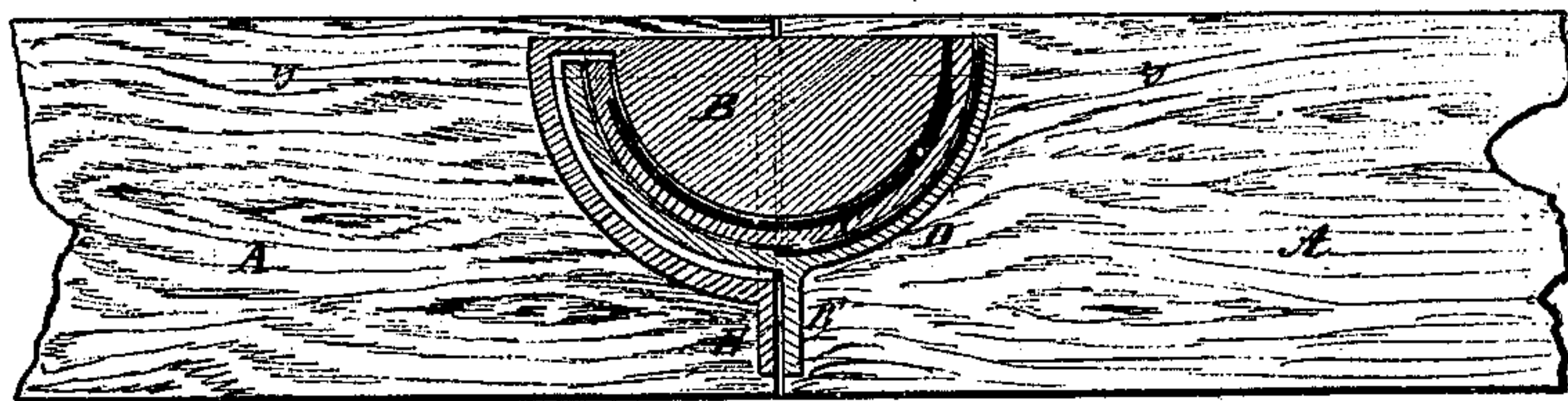


Fig. 2

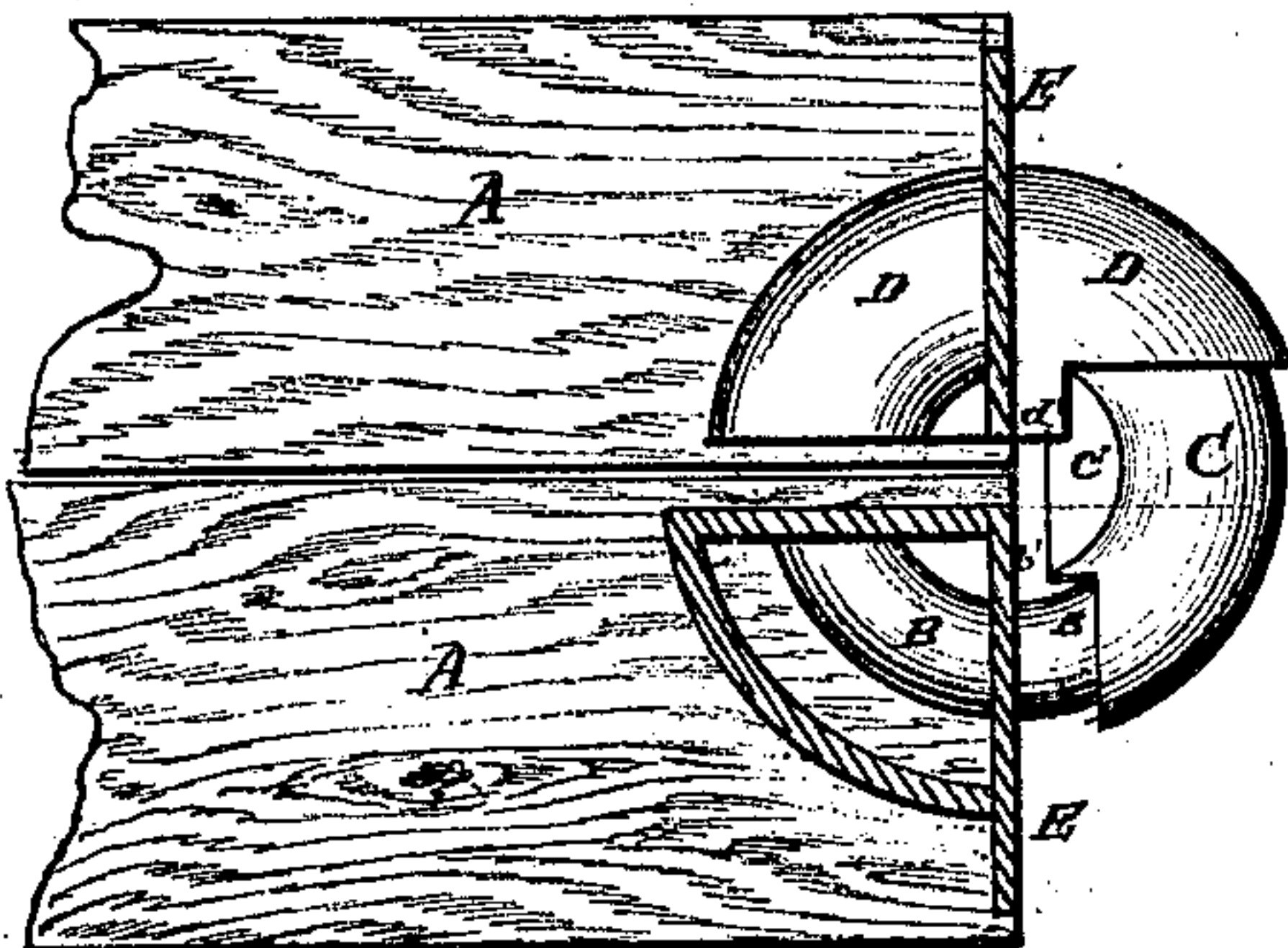
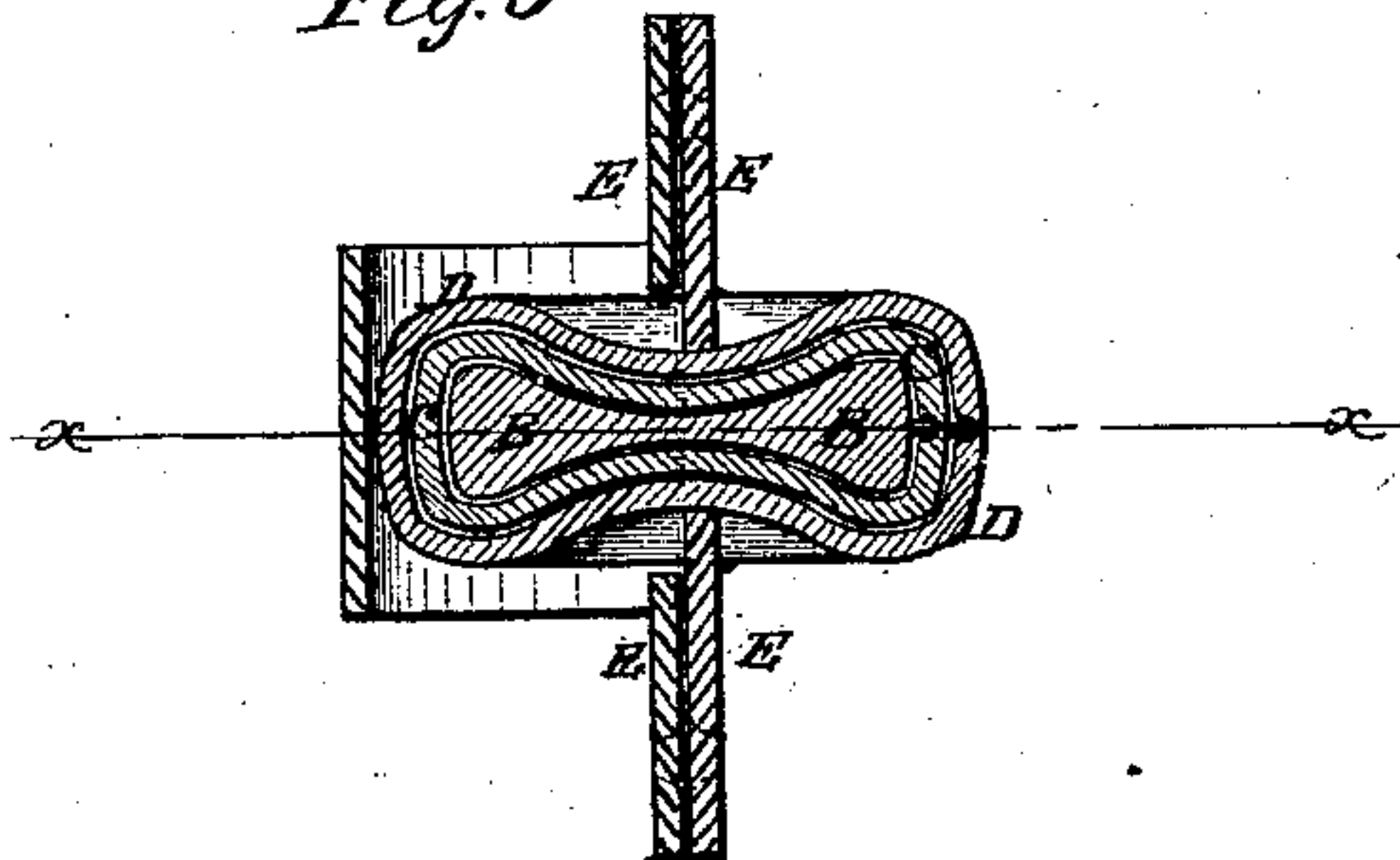


Fig. 3



Witnesses:

A. W. Almqvist
Geo. W. Mabee

Inventor:

A. S. Blake
PER *Mmm H*
Attorneys.

United States Patent Office.

AMOS S. BLAKE, OF WATERBURY, CONNECTICUT.

Letters Patent No. 93,402, dated August 10, 1869.

IMPROVEMENT IN TELESCOPIC QUADRANT-HINGE.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, AMOS S. BLAKE, of Waterbury, in the county of New Haven, and State of Connecticut, have invented a new and improved Telescopic Piano-Hinge; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a detail sectional view of my improved hinge, taken through the line *z z*, fig. 3.

Figure 2 is a side view of the same.

Figure 3 is a detail sectional view of the same, taken through the line *y y*, fig. 1.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved hinge for pianos, melodeons, organs, and other purposes, which shall be simple in construction, effective in operation, and at the same time so constructed and arranged as to leave the surface of the wood-work to which it is attached entirely smooth for convenience in finishing and polishing said wood-work and in using the instrument; and

It consists in the telescopic hinge, constructed as hereinafter more fully described.

A represents the wood-work to which my improved hinge has been attached.

B C D are the main parts of the hinge, which are made curved in the arc of a circle, and the two outer parts C D are made tubular, so that the parts of the hinge, in opening and closing, may slide upon each other in the manner of a telescope.

The parts B and D are securely attached to, or are formed solid with the plates E, by means of which the hinge is secured to the wood-work A.

The inner surface of the outer sides of the parts C and D are grooved longitudinally, and have stop-pins or projections secured or formed in them, against which stop-pins or projections formed upon or attached to the outer sides of the inner parts B and C may strike, to limit the movement of said parts upon each other.

These stops should be so arranged that each part may move upon the next inner part through an arc of about one-quarter of a circle.

The central parts *b' c' d'*, of the parts B C D, are depressed, as shown in fig. 2, so as to serve as a pivot or centre-pin to the hinge in its movements.

The hinge, when closed, as shown in fig. 1, should be a little less than a semicircle, the centre of the circle being the edges of the adjacent parts of the wood-work to which the hinges are attached, so that the said edges may be in close contact with but not rub each other as the hinged part of said wood-work is moved.

In the case of organs and other articles where the hinged part, in being opened, is not required to swing through the arc of a semicircle, or into a position parallel with its former position, as shown in figs. 1 and 2, the part C of the hinge may be omitted, only two parts being used.

Having thus described my invention,

I claim as new, and desire to secure by Letters Patent—

An improved hinge, made in parts so constructed as to slide upon each other in the manner of a telescope, for the purpose set forth.

AMOS S. BLAKE.

Witnesses:

WILLARD SPENCER,
E. LEAVENWORTH.