

(No Model.)

A. F. PFEIFER.

TRANSOM LIFTER.

No. 311,256.

Patented Jan. 27, 1885.

Fig. 2.

fig. 1.

Fig. 3.

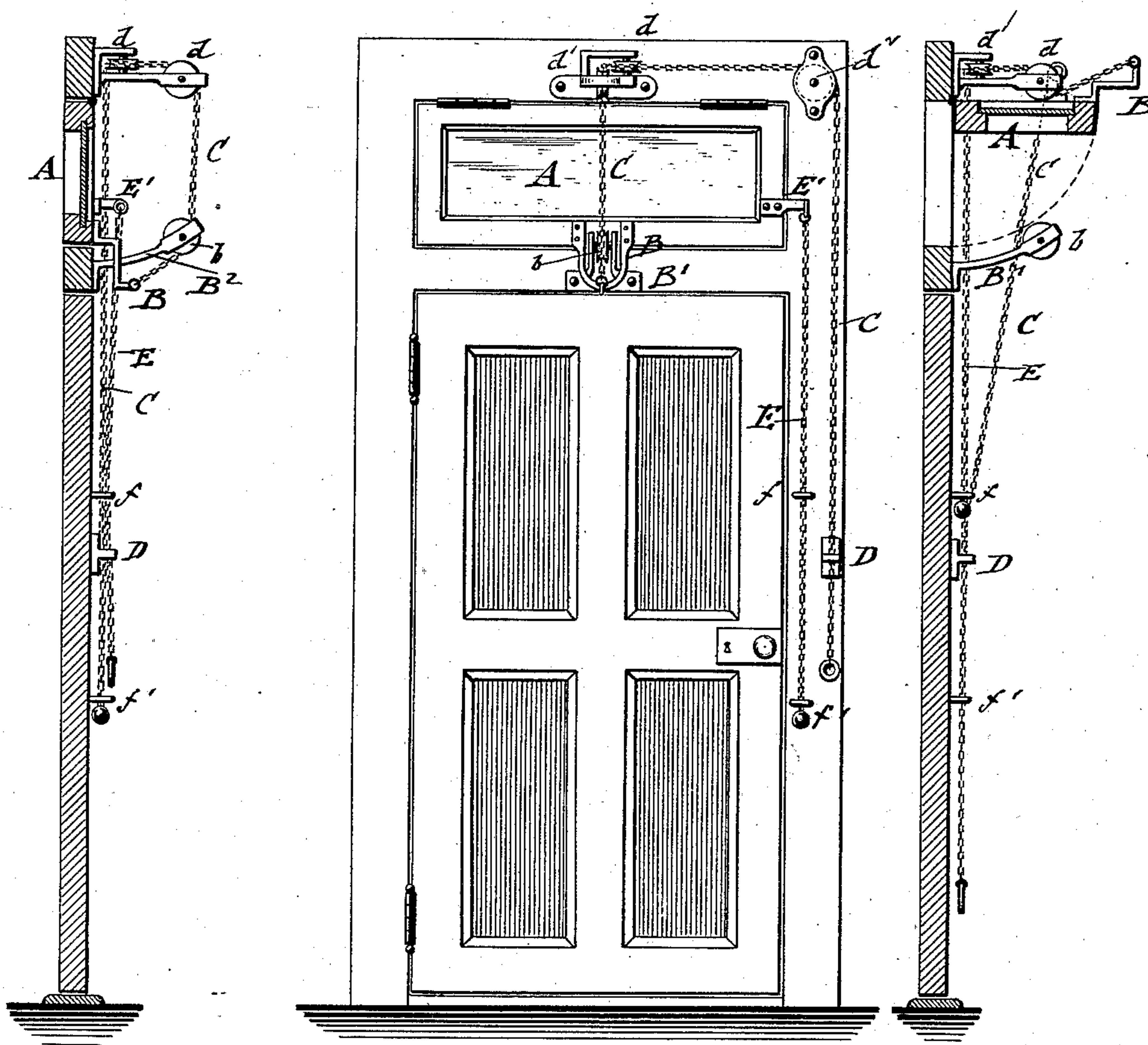
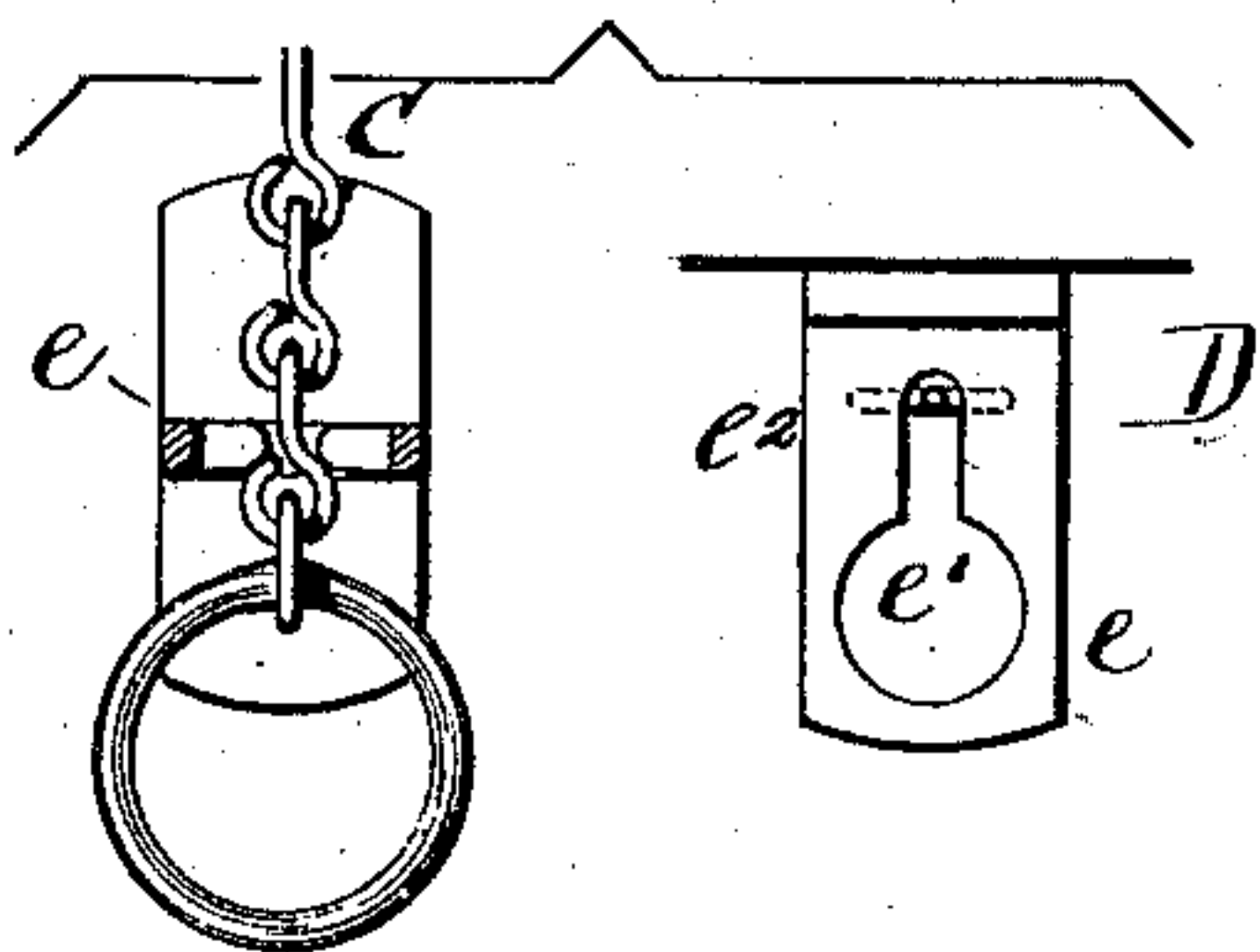


fig. 4.

WITNESSES:

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AUGUST F. PFEIFER, OF NEWARK, NEW JERSEY.

TRANSOM-LIFTER.

SPECIFICATION forming part of Letters Patent No. 311,256, dated January 27, 1885.

Application filed April 12, 1884. (No model.)

To all whom it may concern:

Be it known that I, AUGUST F. PFEIFER, of Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Transom-Lifters, of which the following is a specification.

This invention has reference to an improved device for lifting transoms for doors in a quick and convenient manner by an easily-working and comparatively-simple mechanism; and the invention consists of a hinged transom provided with a U-shaped bracket-arm, to which the lifting chain or cord is attached. The bracket-arm passes along a fixed guide-arm of the door-casing, said guide-arm having a pulley at its outer end. The lifting-chain is passed over suitable guide-pulleys and retained by a suitable locking device, so as to hold the transom in open or closed position. A second cord or chain is used for closing the transom when the retaining device of the first cord or chain is released.

In the accompanying drawings, Figure 1 represents a front elevation of a door with my improved transom-lifting device, and Figs. 2 and 3 are vertical transverse sections of the same, showing the transom respectively in closed and open position; and Fig. 4, a detail of the retaining device for the lifting-chain.

Similar letters of reference indicate corresponding parts.

A in the drawings represents a transom which is hinged at its upper or lower end to the door-frame, or pivoted centrally to the same. The transom A is provided with a fixed bracket-arm, B, which is attached to a point near the middle or end of the transom, and connected to a lifting cord or chain, C, that passes over suitable guide-pulleys, d , of a fixed arm, d' , at the upper part of the door-casing, over a side guide-pulley, d^2 , to a retaining device, D, of any approved construction, that shown in the drawings being made of a projecting plate, e , having a circular opening, e' , and a contracted extension-slot, e^2 , as shown in Figs. 1 and 4. By moving the lifting-chain C forward into the opening e' of the

projecting plate e so as to clear the contracted slot e^2 , the lifting-chain C can pass readily through the opening e' . By pulling the lifting-chain C the transom A is opened, while it is closed by its own weight when the lifting-chain is let go. On pushing the chain C back into the contracted slot e^2 it is retained by the slot and locked into position.

The bracket-arm B (shown in Fig. 1) is made of U shape, so as to pass over a second arc-shaped guide-arm, B' , that is attached to the door-casing, and provided with a pulley, b , at its outer end, said arm and pulley serving to guide the lifting-chain and facilitate the opening of the transom without a too hard pull on the lifting-chain C.

For the purpose of closing the transom a closing-chain, E, is guided in suitable eyes, f , of the door-casing sidewise of the lifting-chain C. The closing-chain E is attached to a short arm, E' , attached to the transom, as shown in Fig. 1. The closing-chain E serves for the purpose of bringing the transom back into entirely closed position in case it should not have been closed entirely by gravity. When the transom is closed, the ball or ring shaped lower end of the chain E is retained by a hook, f' .

The lifting device is comparatively cheap, the different parts being quickly assembled and attached to the door-casing and transoms.

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

The combination of a hinged or pivoted transom, A, having a U-shaped bracket-arm, B, a fixed guide-arm, B' , having a pulley, b , a lifting-chain, C, attached to the bracket-arm B, a fixed upper arm, d' , having guide-pulleys d , a side guide-pulley, d^2 , and a retaining device, D, for the lifting-chain, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

AUGUST F. PFEIFER.

Witnesses:

PAUL GOEPEL,
SIDNEY MANN.