

No. 810,721.

PATENTED JAN. 23, 1906.

E. G. COLE.
LIFT PLATE.

APPLICATION FILED MAY 11, 1905.

Fig. 5.

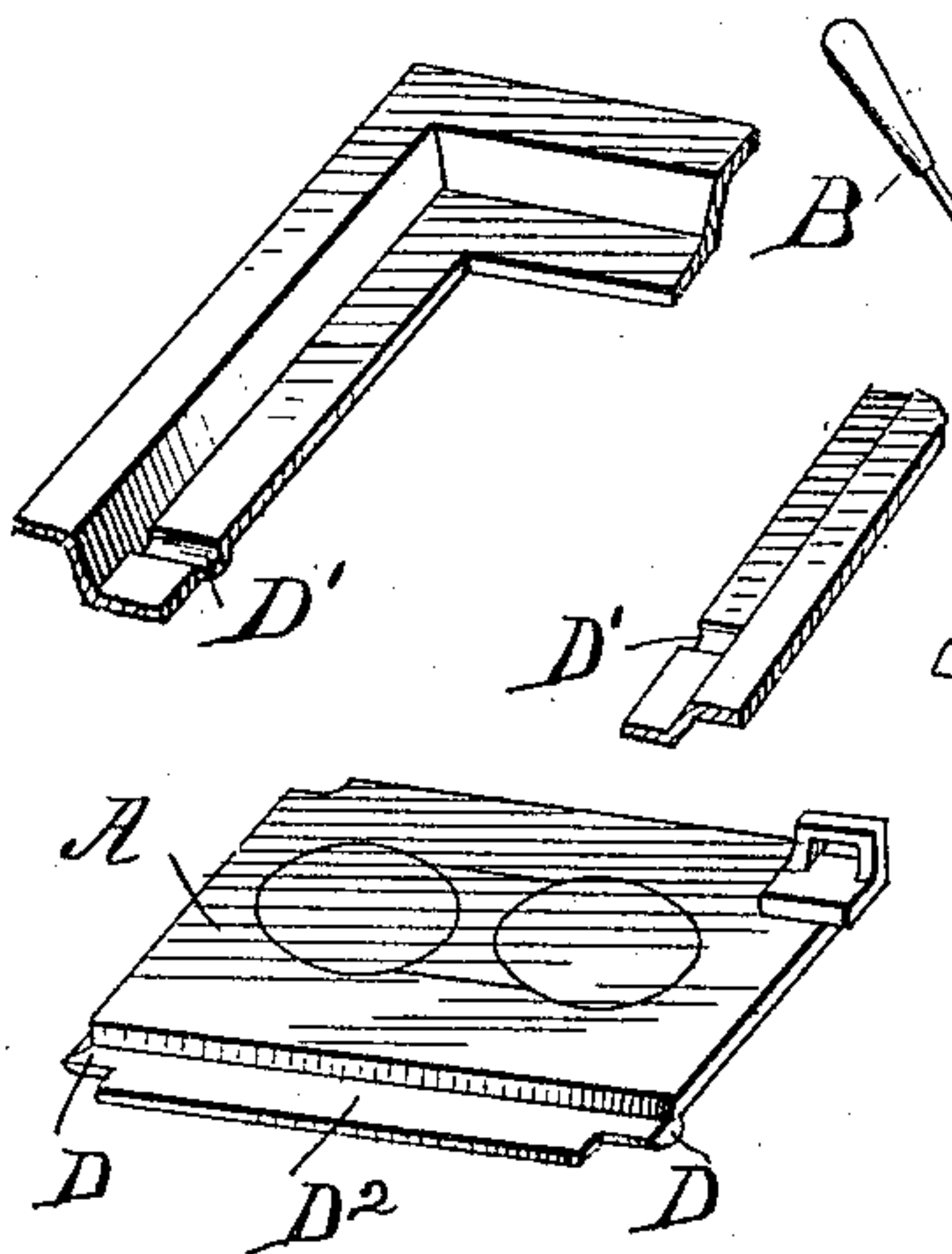


Fig. 1.

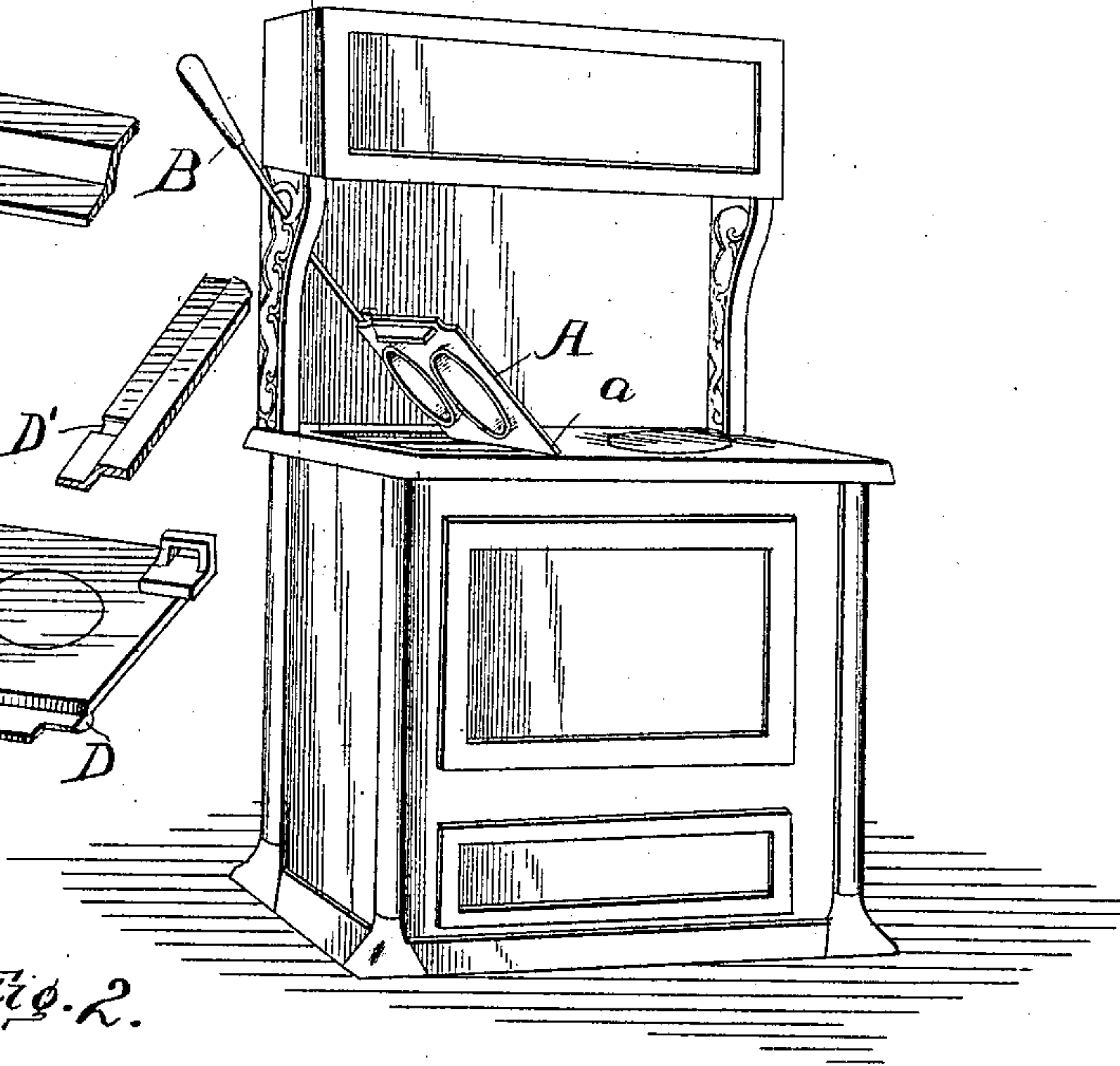


Fig. 2.

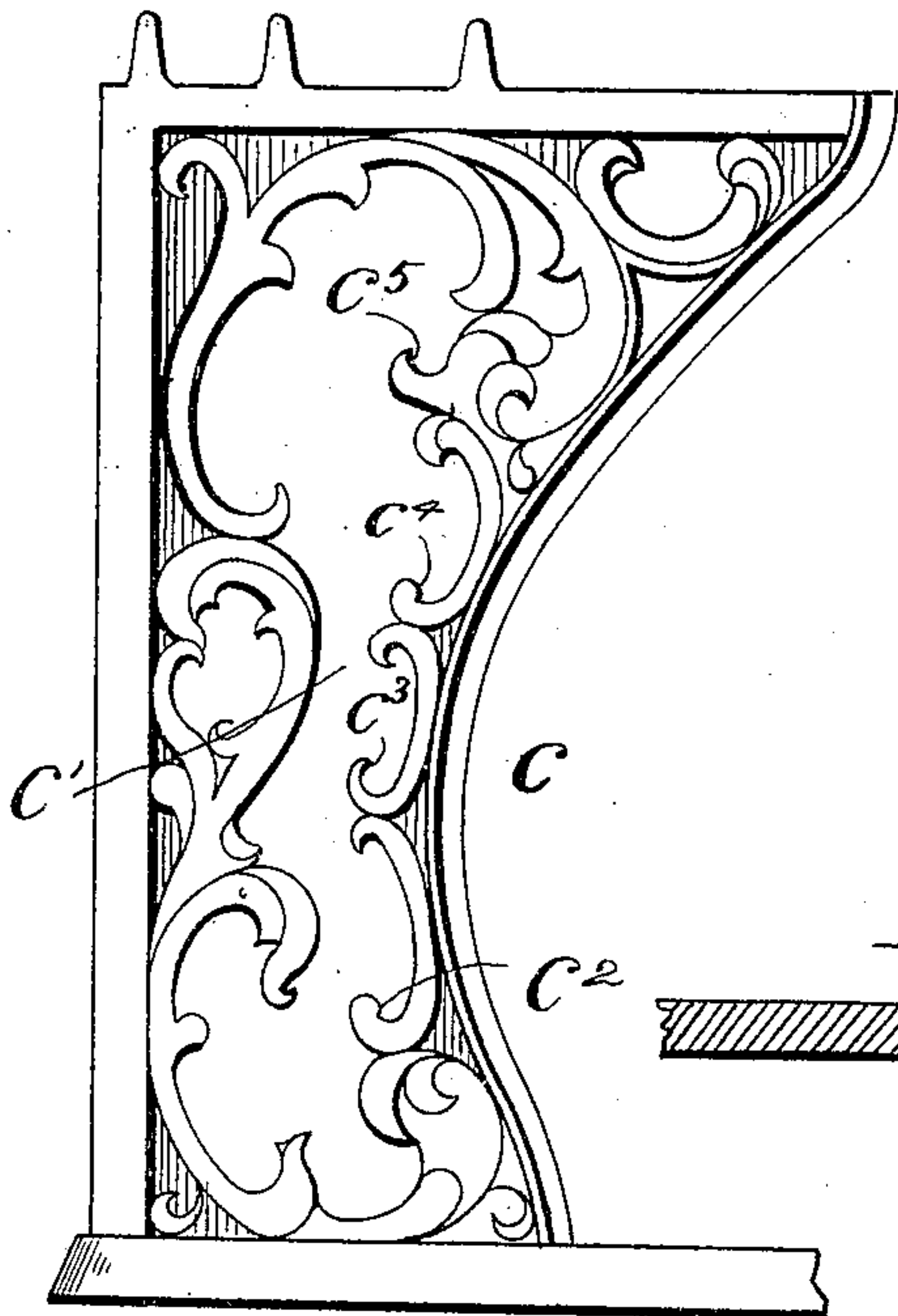


Fig. 3.

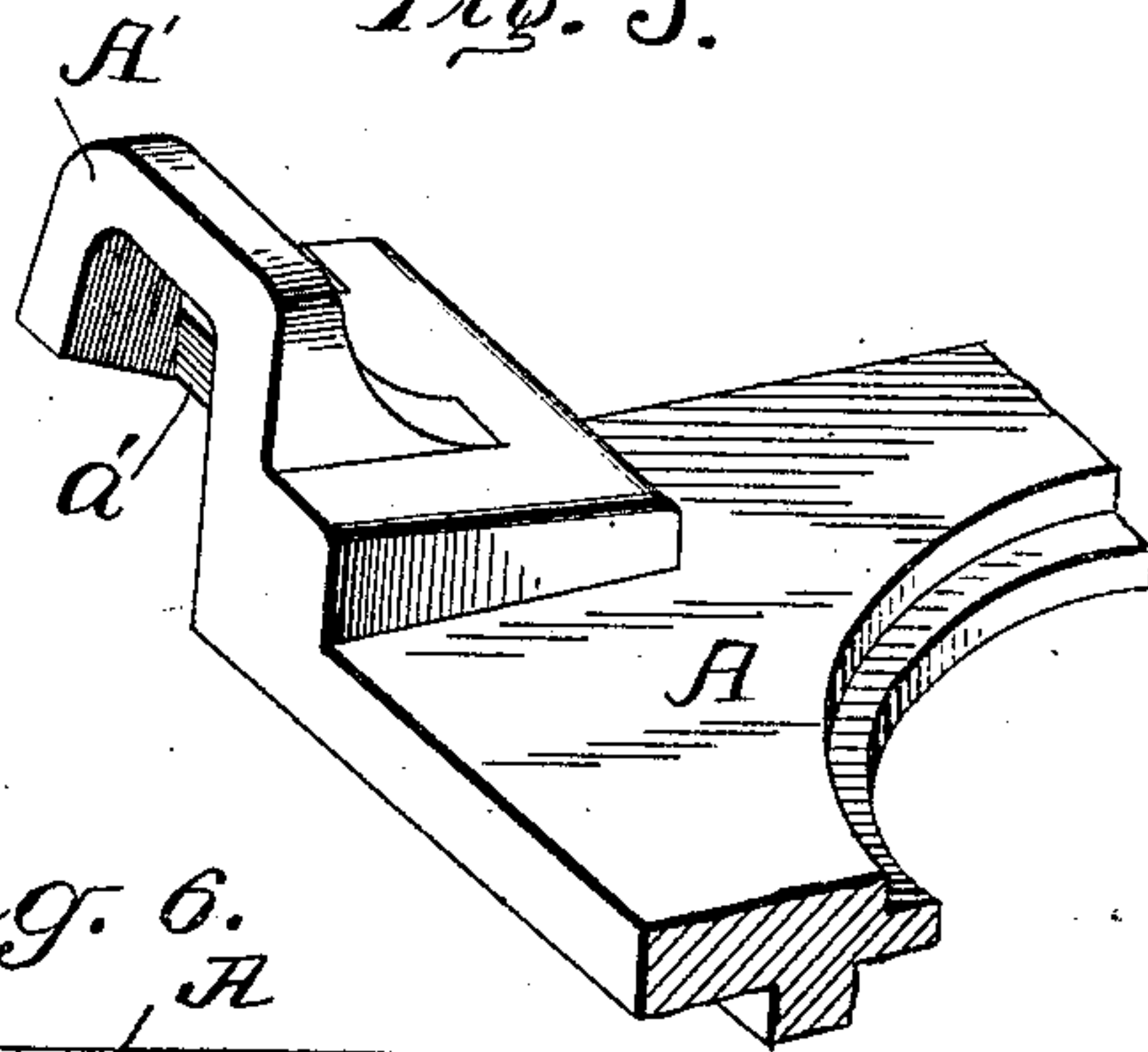


Fig. 6.

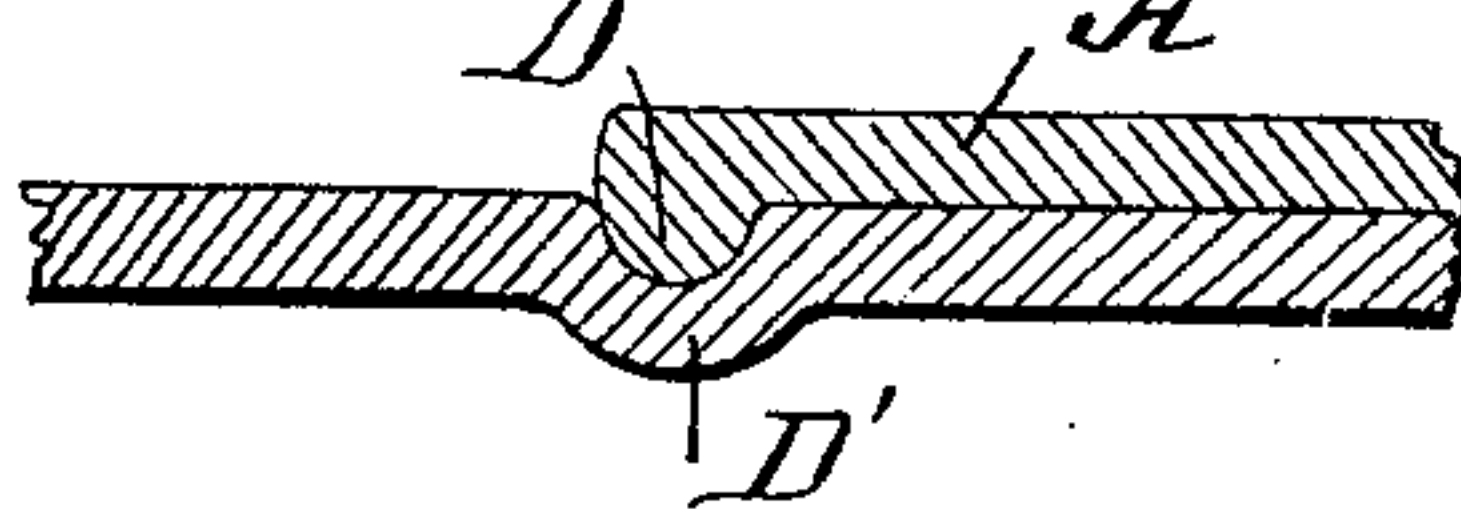
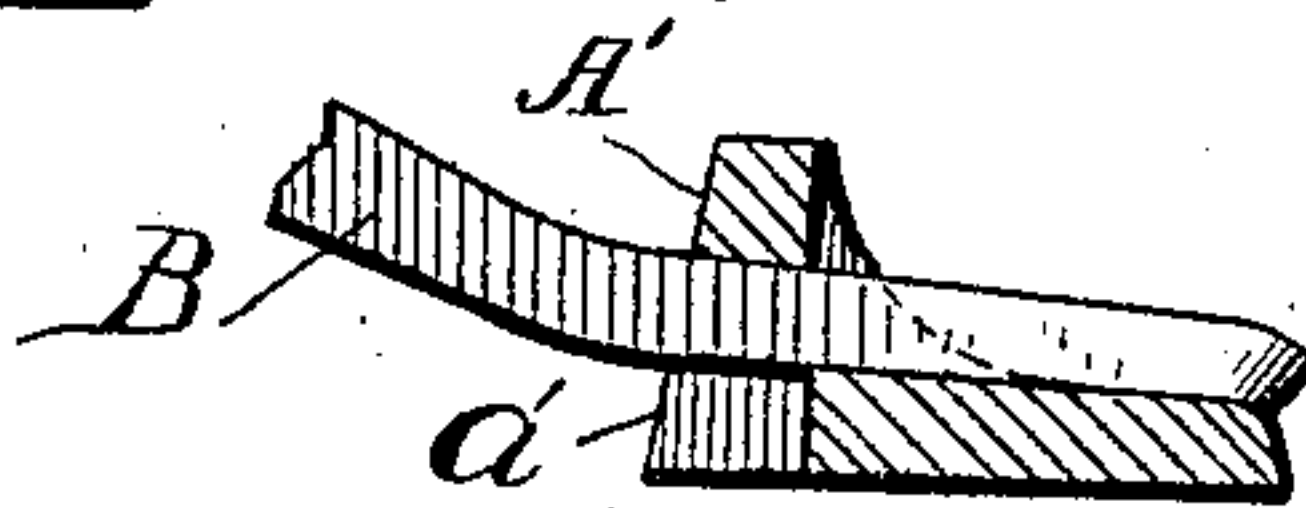


Fig. 4.



WITNESSES:

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UNITED STATES PATENT OFFICE.

ERNEST CHAPIN COLE, OF CHICAGO, ILLINOIS, ASSIGNOR TO COLE MANUFACTURING COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF IOWA.

LIFT-PLATE.

No. 810,721.

Specification of Letters Patent.

Patented Jan. 23, 1906.

Application filed May 11, 1905. Serial No. 260,015.

To all whom it may concern:

Be it known that I, ERNEST CHAPIN COLE, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Lift-Plates, of which the following is a specification.

My invention is an improvement in ranges, and has for an object to provide a novel construction whereby the lift-plate may be tilted to hold it in any desired position whenever required; and the invention consists in certain novel constructions and combinations of parts, as will be hereinafter described and claimed.

In the drawings, Figure 1 is a perspective view of a range embodying my invention. Fig. 2 is a detail side elevation of the bracket. Fig. 3 is a detail perspective view of a portion of the lift-plate, showing the seat or socket for the lifter. Fig. 4 is a detail sectional view showing the lifter interlocking the lift-plate. Fig. 5 is a detail view showing the lift-plate and its support, and Fig. 6 is a detail cross-section through one of the hinge projections of the lift-plate and the notch receiving such projections.

The lift-plate A may in general respects be of ordinary construction, and it and the lifter B are adapted for interlocking engagement. In providing for this interlocking engagement it is preferred to provide the plate A at its outer edge and adjacent to its inner side with a socket A', which projects above the body of the plate A and is open at its outer end at a', so the end of the lifter B may be inserted in said socket A' when the lift-plate is lowered flat upon the top of the stove, so that the lifter B may be utilized in raising the lift-plate from and lowering it to its lower normal position.

As will be understood from Fig. 1, the lifter B may be utilized in tilting the plate A to uncover the opening in the top of the stove in order to permit access to the fire-pot for any desired purpose, such as broiling or to replenish the fuel or to manipulate the coals, as may be desired. In order to hold the lifter and with it the lift-plate A, in any suitable position, I provide an upright bracket C at one side of the range and provide it with a vertically-elongated opening C', at one side of which I provide a series of upwardly-facing hooks C² C³ C⁴ C⁵, forming seats for the lifter

B, and in connection with any one of which the said lifter may be engaged for the purpose of holding the plate A at the desired height. By preference I provide these hooks C², C³, C⁴, and C⁵ by the formation of the scrollwork constituting a part of the bracket, as in this way I do not in any way impair the ornamental feature of the bracket, and yet provide for supporting the lifter B and the lift-plate, with which it is engaged at the desired angle.

It will be noticed that the plate A fulcrums at its inner edge at a on the stove. It may be preferred to provide means for preventing the lift-plate from slipping back when lifted, and to this end the cast-iron projection D may be provided, as shown in Fig. 5, to fit in an opening in the frame and prevent the lift-plate from slipping back when lifted. As shown, the cast-iron projections D are provided at the ends of the lifter-plate and fit in notches D' in both front and back sections of the top frame of the range to prevent the plate from slipping back when lifted. The flange or extension D² on the inner edge of the lift-plate laps under the edge of the middle key-plate to make a tight joint.

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

1. The combination in a range substantially as herein described of the lift-plate provided at its outer edge with a socket arranged above the surface of the lift-plate and adapted to receive the inner end of a lifter, the bracket at the side of the range and having a vertically-elongated opening and provided at the side thereof with a series of scrolls providing hooks forming seats for the lifter, and the lifter passing through the said vertically-elongated opening in the bracket and fitting at its inner end in the socket of the lift-plate, and arranged to seat in the hooks of the bracket whereby the said lifter and the lift-plate may be held at any suitable angle, substantially as set forth.

2. The combination with the lift-plate and the lifter adapted for interlocking engagement, of a bracket having a vertically-elongated opening through which the lifter is passed, and a hook or hooks for engagement by said lifter, substantially as set forth.

3. A range provided at one side of its top with an upright bracket having a hook or

hooks for engagement by a lifter, a lift-plate forming a part of the top of said range and a lifter in the form of a rigid bar connected with said plate and adapted to seat in the hook or
5 hooks in the bracket in securing the lift-plate when raised, substantially as set forth.

4. The combination of a lift-plate, a lifter and an upright bracket adjacent to the lift-plate and having an elongated opening or slot

through which the lifter is passed, and a seat 10 or seats in communication therewith for engagement by said lifter, substantially as set forth.

ERNEST CHAPIN COLE.

Witnesses:

ALICE COMSTOCK,
E. G. GOODCHILD.