

H. J. WILLIAMS.
TOILET PAPER FIXTURE.
APPLICATION FILED JAN. 27, 1906.

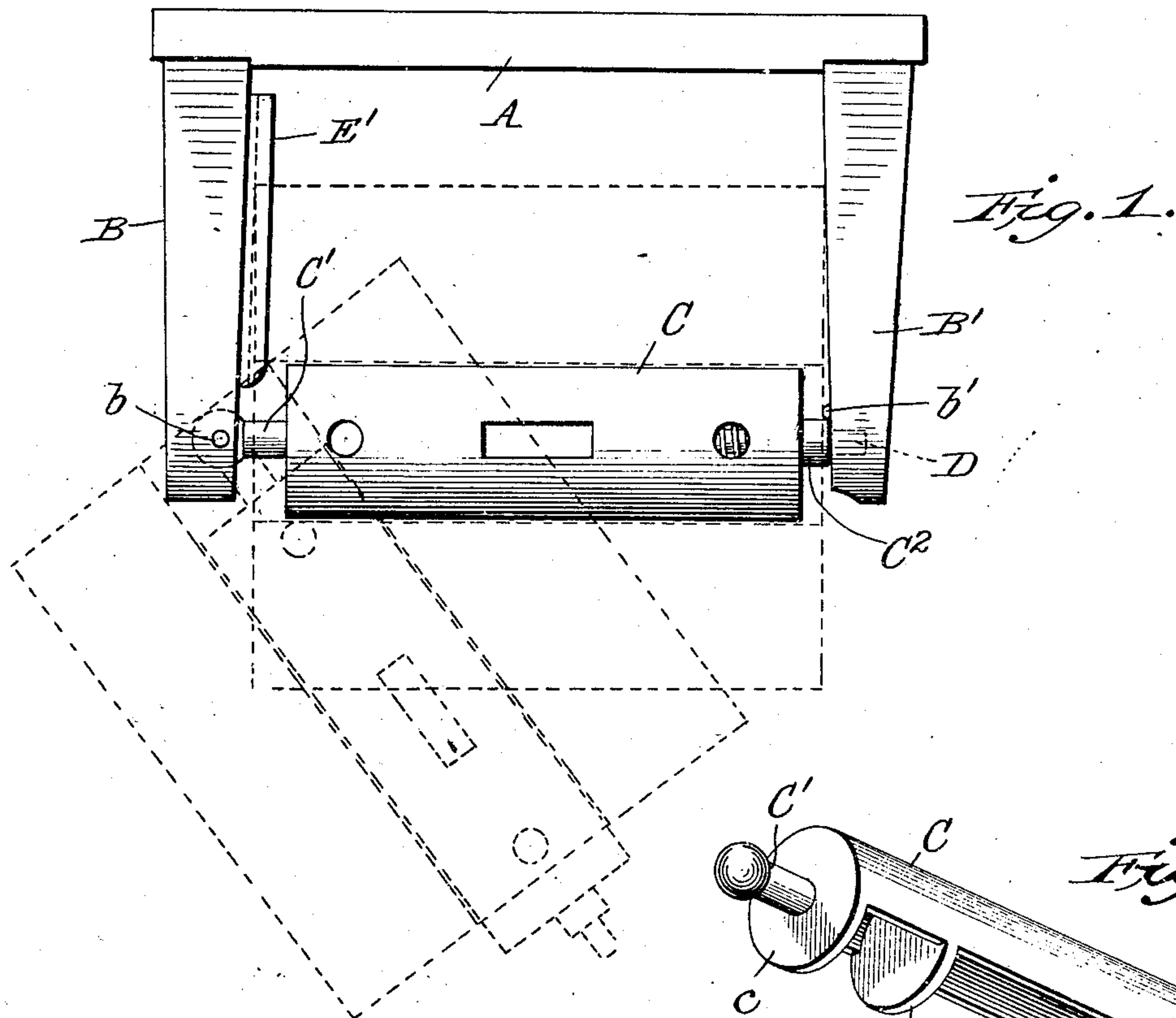


Fig. 2.

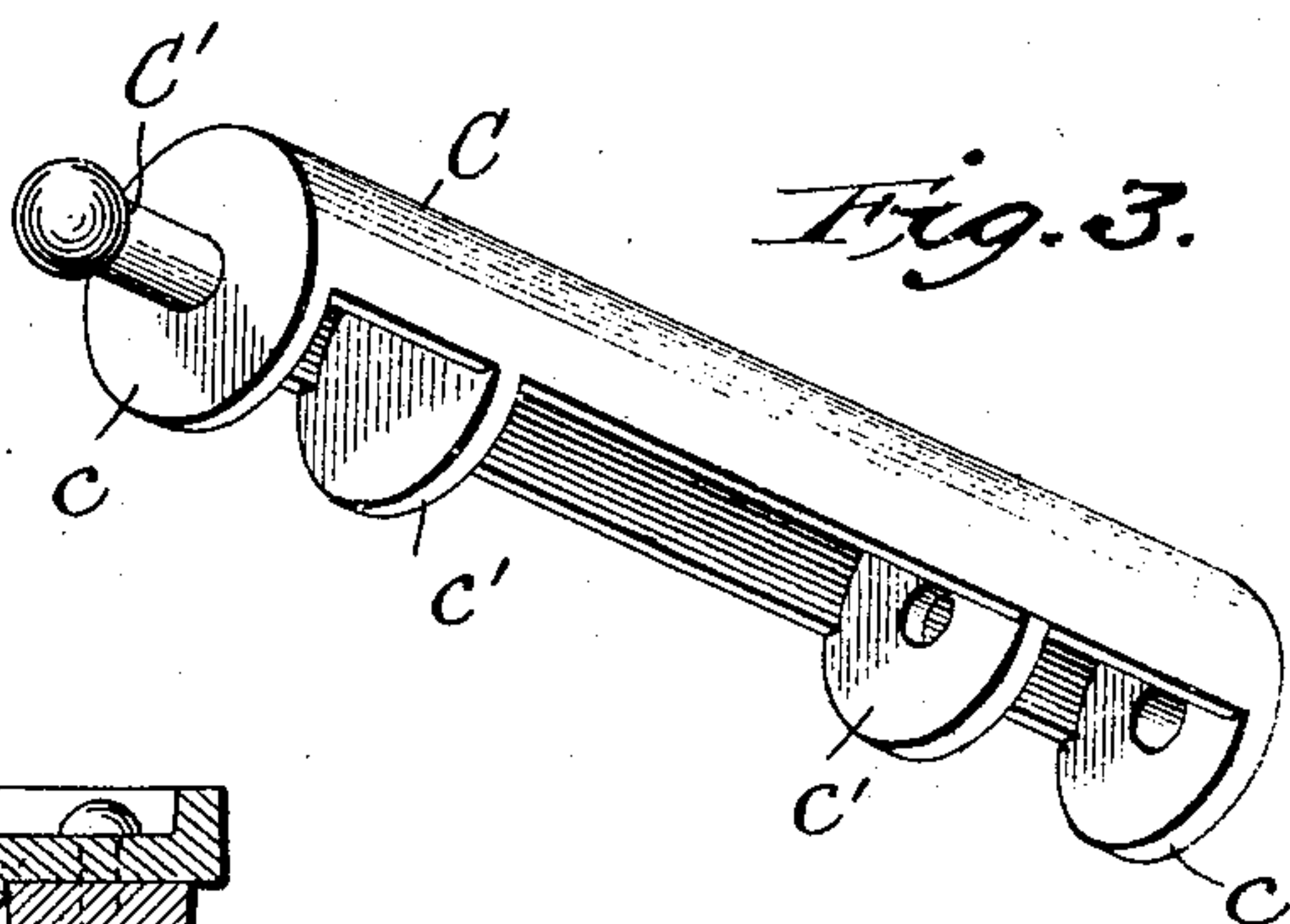
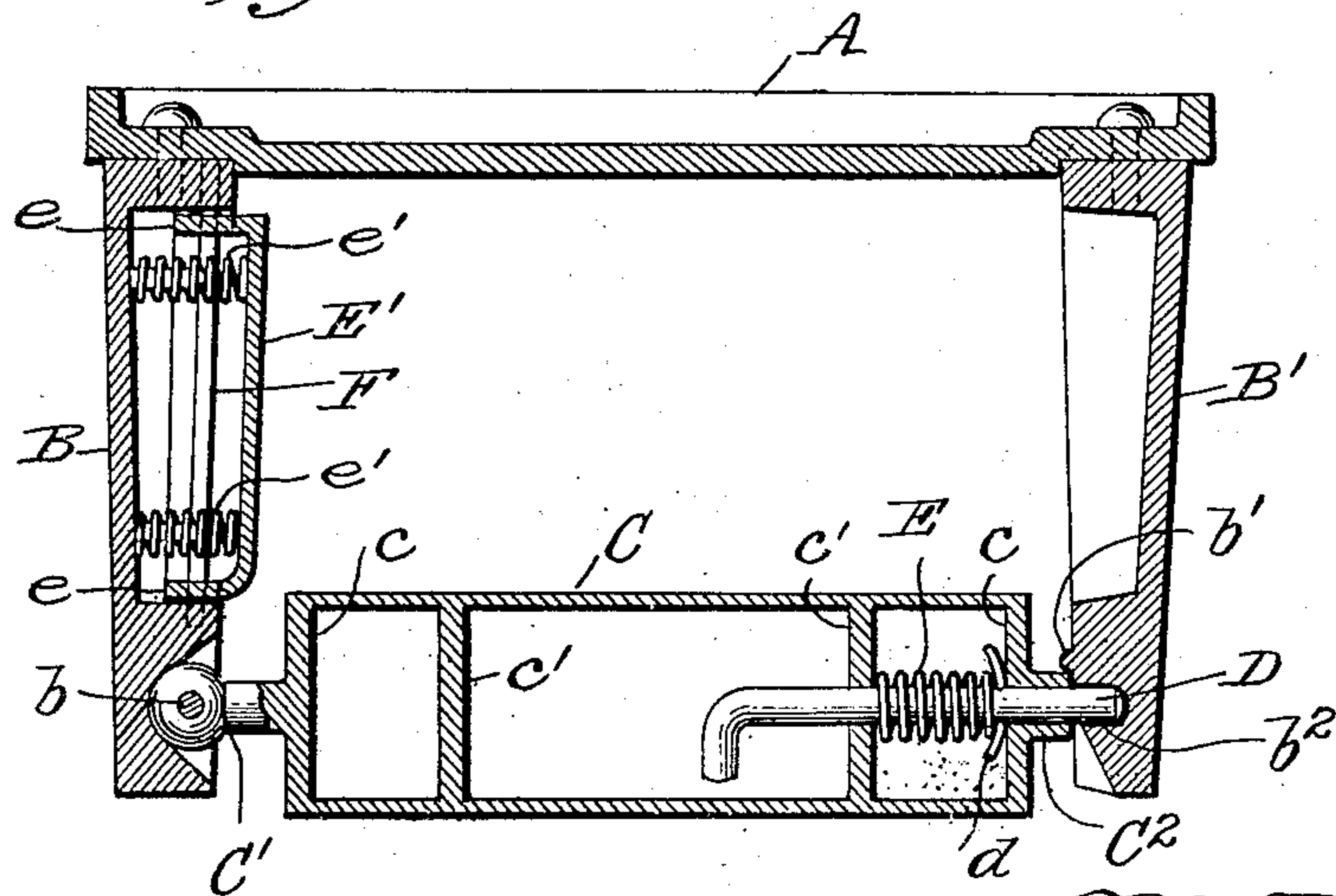
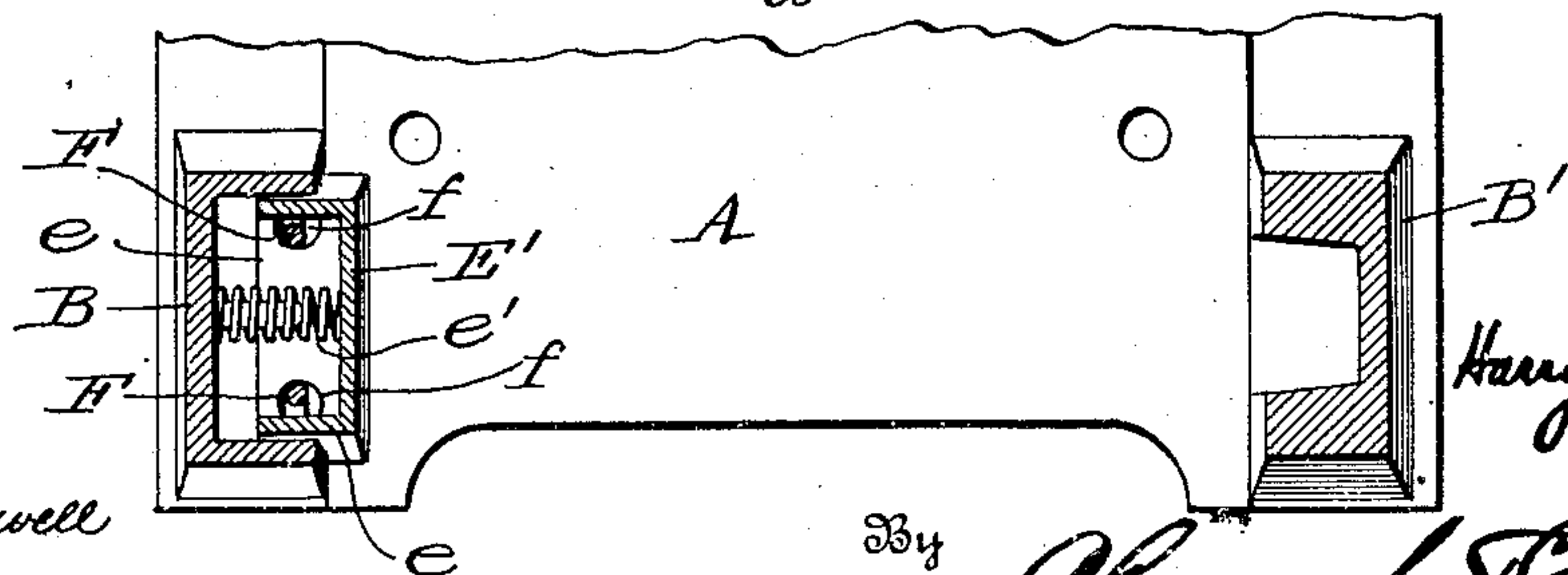


Fig. 4.



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UNITED STATES PATENT OFFICE.

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TOILET-PAPER FIXTURE.

No. 819,488.

Specification of Letters Patent.

Patented May 1, 1906.

Application filed January 27, 1906. Serial No. 298,255.

To all whom it may concern:

Be it known that I, HARRY J. WILLIAMS, a citizen of the United States, residing at Meriden, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Toilet-Paper Fixtures; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the letters of reference marked thereon.

This invention relates to improvements in fixtures for holding toilet-paper, the improvements being especially adapted for use in connection with fixtures for holding round rolls of paper having lines of perforations or weakness at the points where the paper is to be separated into sheets.

The objects of the invention are to provide a simple structure of attractive appearance, the parts of which are all permanently connected and which will not only hold the roll in such manner as to afford the greatest facility in removing the sheets one at a time, but which will lock to prevent the removal of the roll as an entirety and at the same time permit a new roll to be placed in position with the greatest ease and with the certainty that it will be correctly positioned and held ready for use.

Referring to the accompanying drawings, Figure 1 is a top plan view of a fixture embodying the present improvements, the roll of paper and the core when swung to its open position being shown in dotted lines. Fig. 2 is a horizontal section looking downwardly. Fig. 3 is a detail perspective showing the core as it would appear from the under side. Fig. 4 is a vertical section through the arms of the fixture.

Like letters of reference in the several figures indicate the same parts.

The body A of the fixture is of any suitable design adapted to be secured to the wall or other support, and projecting forwardly therefrom are arms B B', preferably made separate from but rigidly attached to the body by screws passing in from the rear face of the body, so as to be inaccessible when the fixture is in position.

The supporting-core C for the roll is hinged at one end on a vertical pin b, passing verti-

cally through a socket in the end of arm B, so that the core may be swung toward and from the opposite arm, but remain attached as a permanent part of the fixture. This core is of cast metal, and the design is such that while little metal is used the core is strong. It affords full circular bearing-surfaces for the interior of the roll, and the locking-pin to be presently described is provided with widely-separated bearings for maintaining its rigidity and alinement. The desired ends are attained by forming the body of the core semicylindrical, but with transverse circular portions in the form of circular ends c and circular intermediate partitions or diaphragms c'. One of the ends has the axial prolongation C', through which the hinge-pin passes, and the other end has a central boss C², forming a stop for contact with the shoulder b' on the arm B' and through which the locking-pin D passes axially to engage the recess b² in the inner face of the said arm. The said locking-pin D slides longitudinally in bearings in the end of the core, and one of the partitions c' and a spring E around the pin on the outer side of the partition bears against a transverse-cotter d to keep the pin normally projected. The inner end of the pin may be bent, as usual, to form a finger-piece for withdrawing the pin when the core is to be swung outwardly.

To retard the free rotation of the roll, the arm B is provided on its inner side with a spring-pressed friction-brake E, against which the end of the roll will bear when swung into position, and it will be noted that by locating the spring-pressed friction-brake on the arm to which the core is hinged the roll will itself automatically depress the brake as it is swung into position, and hence the brake requires no special hand manipulation when a new roll is inserted.

As a convenient construction of brake the inner face of the arm may be recessed and the brake E provided with edge flanges e, adapted to enter the recess. Springs e' are interposed to move the brake outwardly, and longitudinal rods F, passing through holes f in the flanges e, serve to retain the brake in place and limit its outward movement.

The rods F are usually inserted from the rear face of the arm before the latter is positioned, and hence their withdrawal requires

the removal of the arm from the base of the fixture.

The arm opposite the friction-brake may be formed, as shown, with smooth inner faces against which the roll will be pressed by the said brake. Thus the roll will, in effect, be held between two braking-faces acting to retard its free rotation and assisting in the convenient separation of the strip into individual sheets.

The projection on the end of the core, it will be noted, is hinged in the reduced end of the supporting-arm, and the core moving around said reduced end affords ample space for the roll to avoid contact with the opposite arm as it is swung into place.

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

20 1. In a toilet-paper fixture, the combination with the base and forwardly-extending supporting-arms rigid therewith of the core

provided with roll-supporting surfaces and permanently hinged at one end in the end of one of the said arms and a lock cooperating with the opposite arm for holding the core against movement on its hinge, and located in position to be concealed by the roll of paper held by the core; substantially as described.

2. In a toilet-paper fixture, the combination with the base and forwardly-extending supporting-arms rigid therewith, of the core having circular bearing-surfaces for the roll, axial extensions on the core, one of which is movable longitudinally to form a lock adapted to engage a recess in one arm, and a permanent hinge connection between the other axial extension and the end of one of the supporting-arms; substantially as described.

HARRY J. WILLIAMS.

Witnesses:

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