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G. T. JOHNSON & G. F. BULLARD.

TOILET PAPER FIXTURE.

APPLICATION FILED APR. 9, 1904.

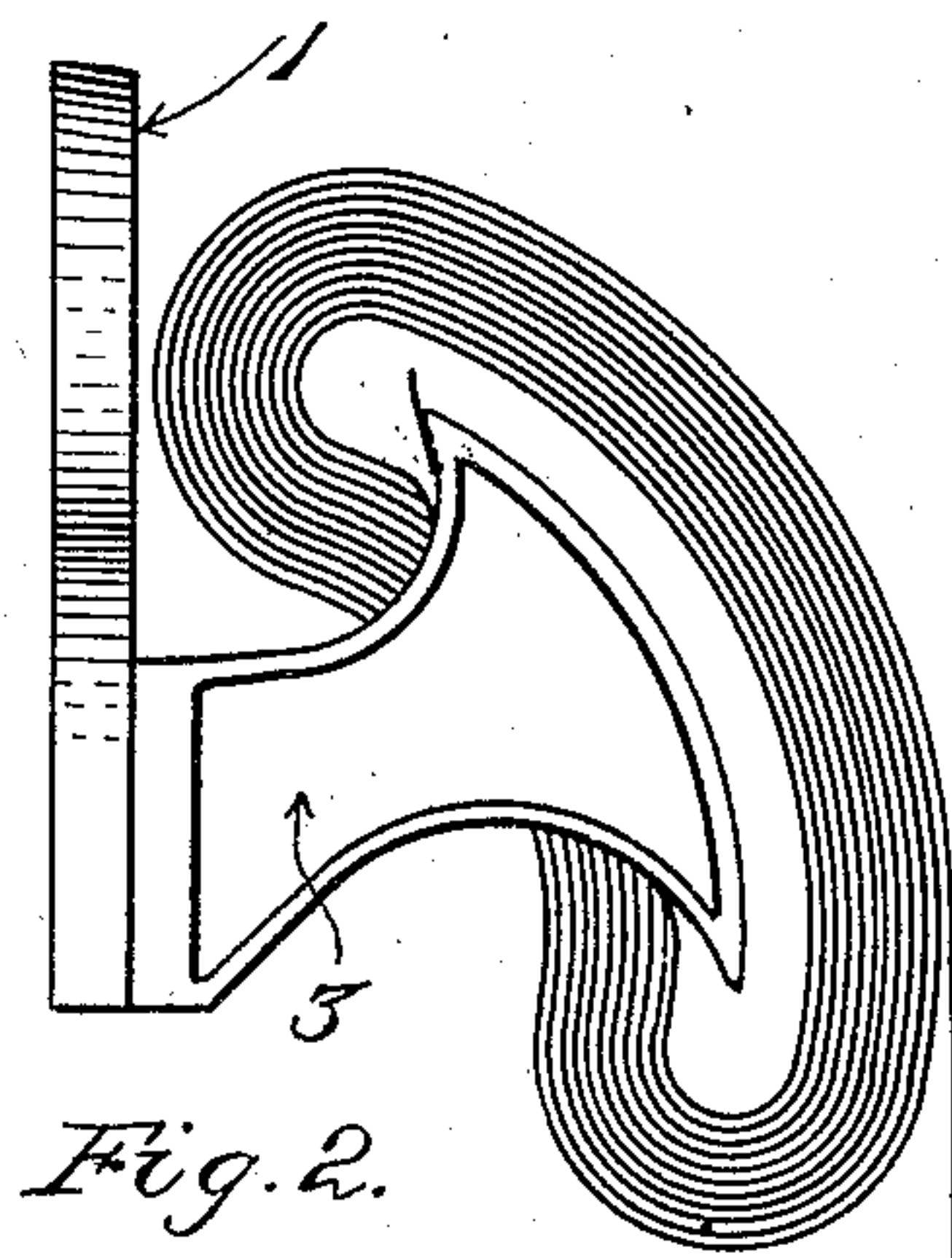


Fig. 2.

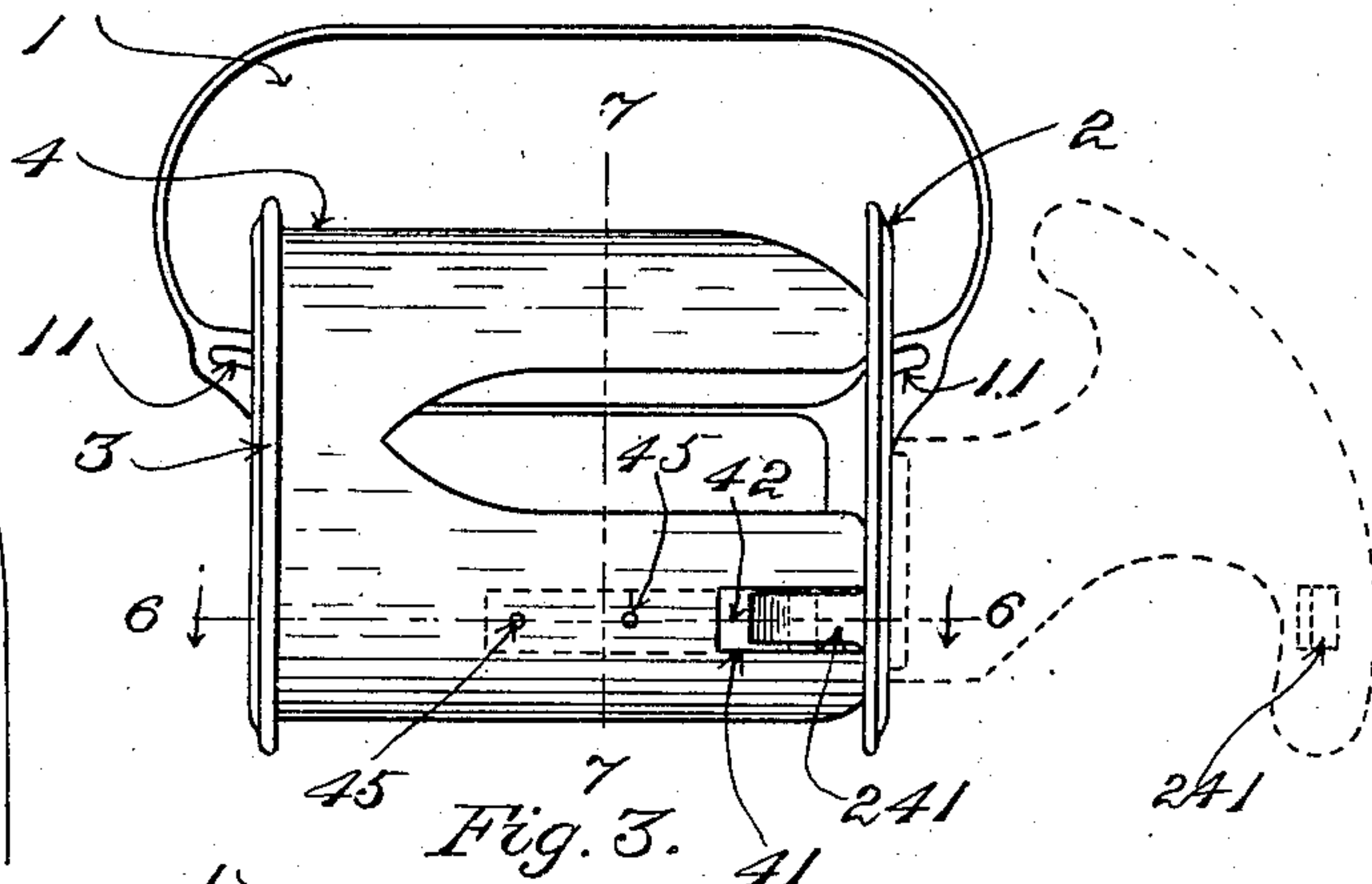


Fig. 3.

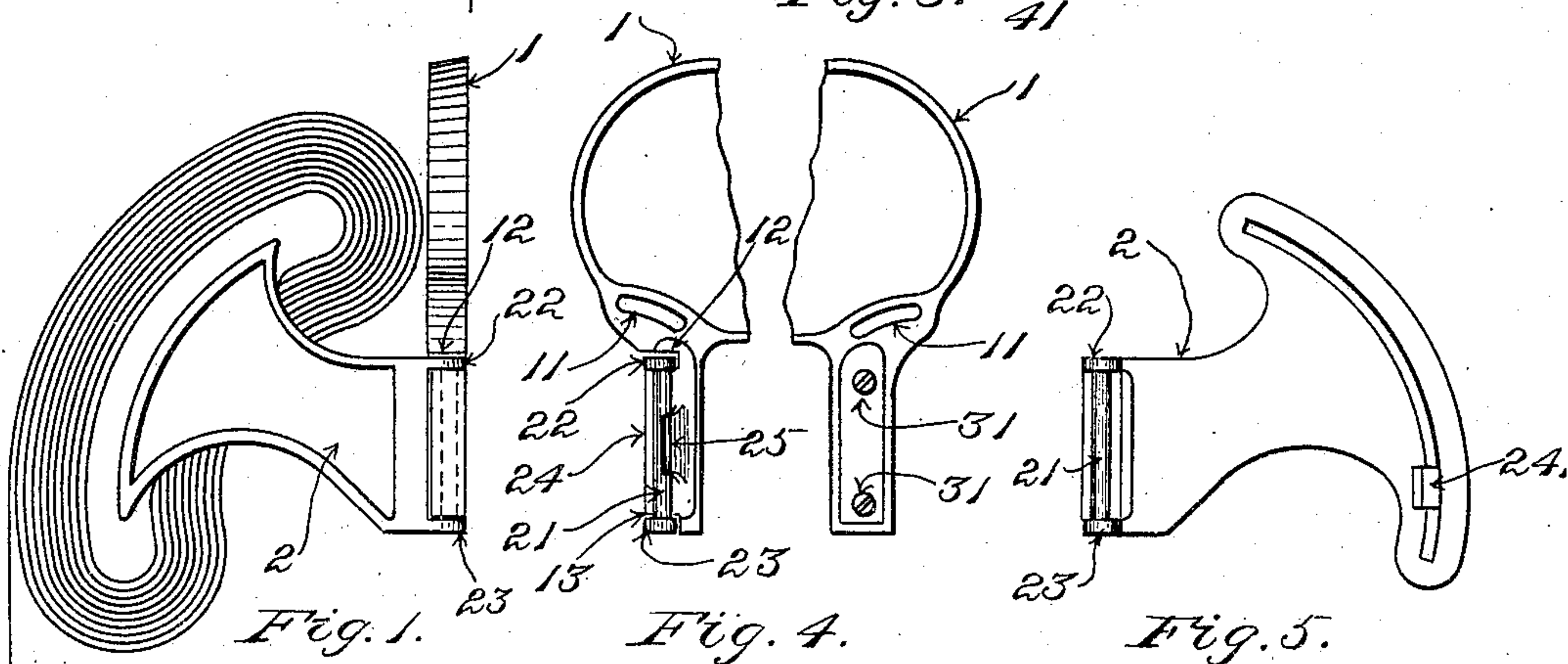


Fig. 1.

Fig. 4.

Fig. 5.

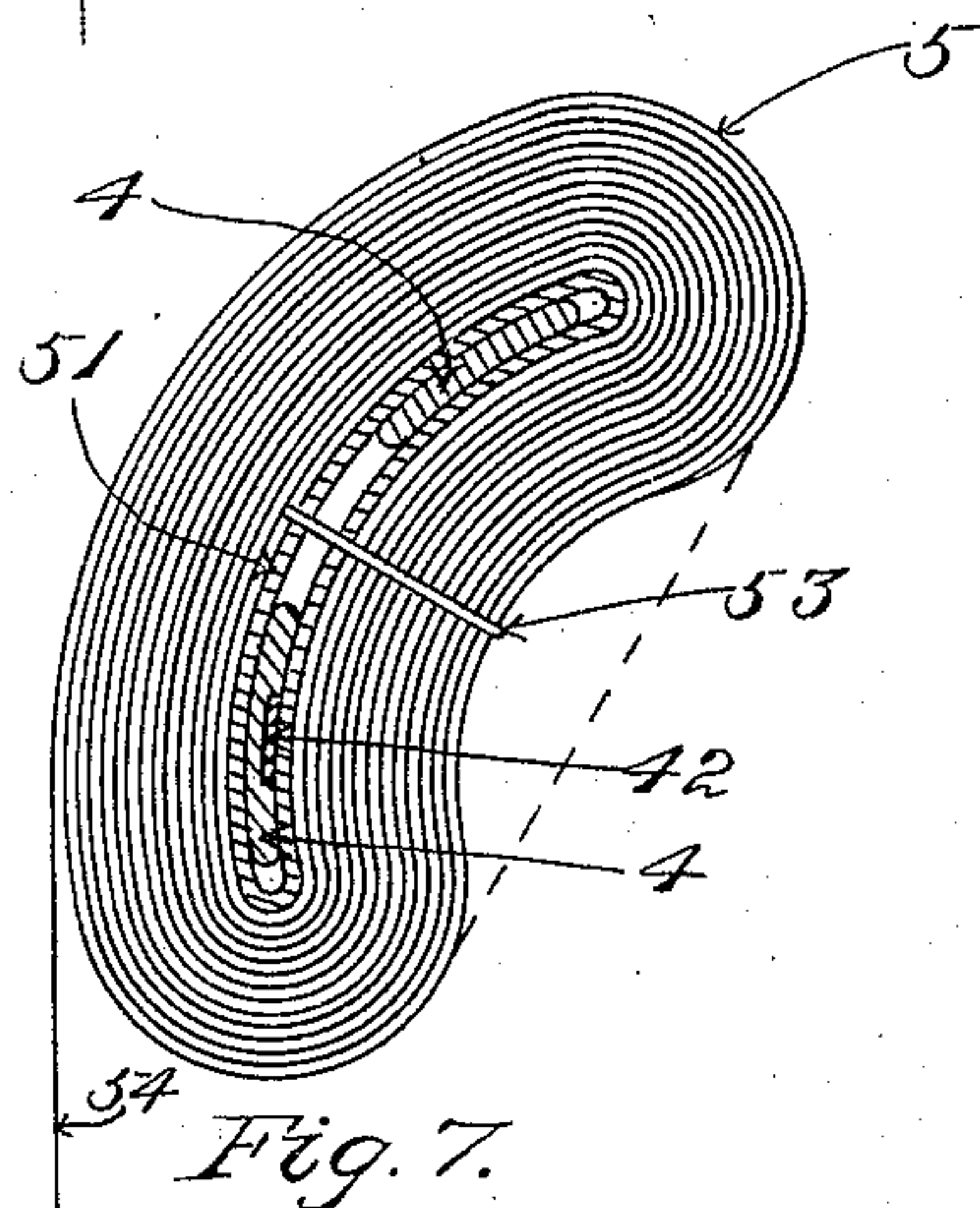


Fig. 7.

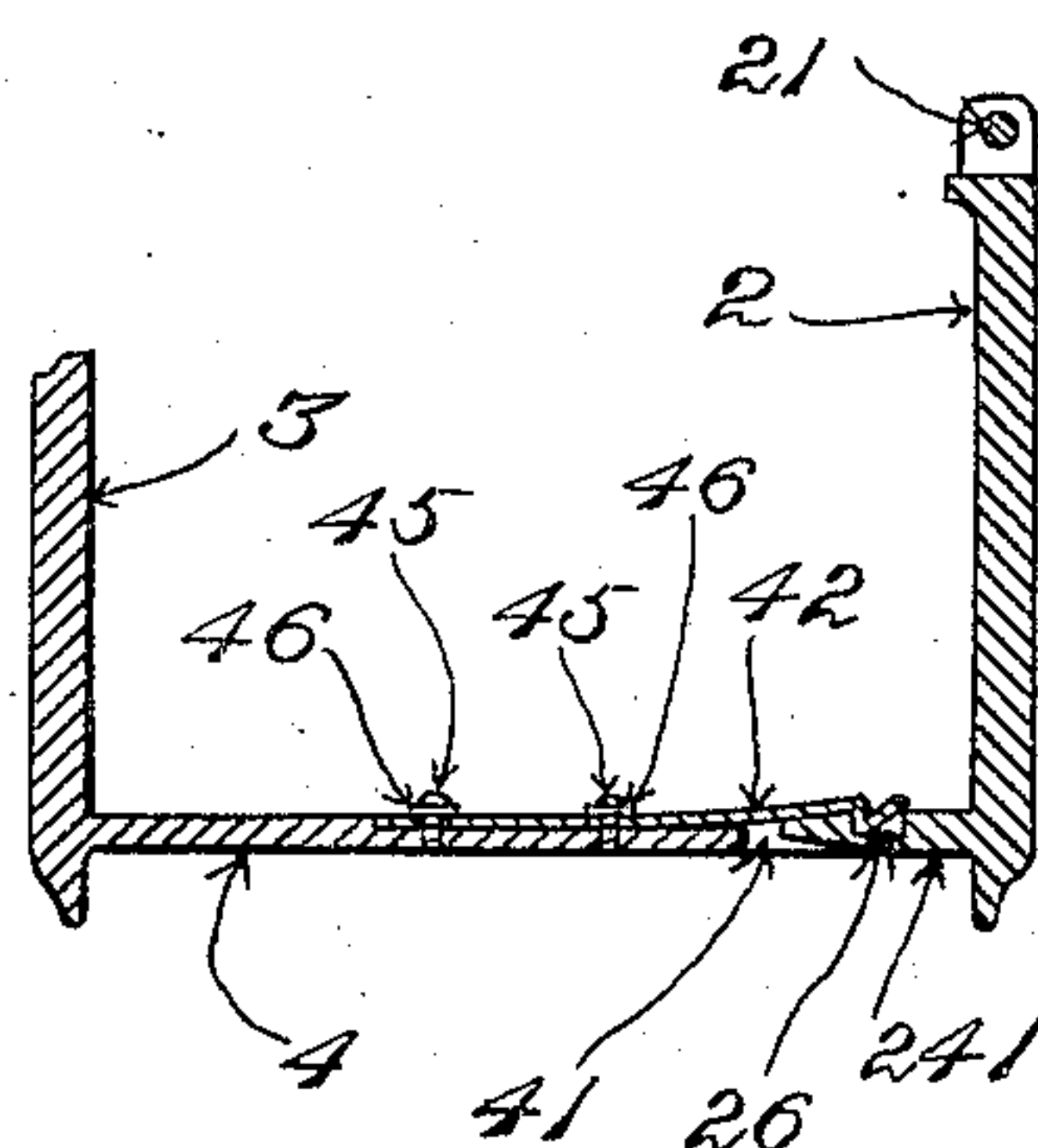


Fig. 6.

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UNITED STATES PATENT OFFICE.

GEORGE T. JOHNSON, OF CAMBRIDGE, AND GUY F. BULLARD, OF
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TOILET-PAPER FIXTURE.

SPECIFICATION forming part of Letters Patent No. 788,263, dated April 25, 1905.

Application filed April 9, 1904. Serial No. 202,347.

To all whom it may concern:

Be it known that we, GEORGE T. JOHNSON, residing at Cambridge, in the county of Middlesex, and GUY F. BULLARD, residing at Boston, in the county of Suffolk, State of Massachusetts, citizens of the United States, have invented a certain new and useful Improvement in Toilet-Paper Fixtures, of which the following is a specification, reference being
10 had therein to the accompanying drawings.

In the drawings, Figure 1 shows in side elevation a toilet-fixture constructed in conformity with our invention with a roll or package of paper mounted therein. Fig. 2 is a view
15 of the same in elevation looking from the opposite side. Fig. 3 shows the fixture in front elevation without the roll or package of paper. Fig. 4 shows in rear elevation opposite portions of the fixture. Fig. 5 shows the movable side arm in side elevation viewing the
20 inner side thereof. Fig. 6 is a view in horizontal transverse section on line 6 6, Fig. 3. Fig. 7 is a view of the roll or package of paper and the roll-support inserted into the central
25 opening thereof, both being in vertical section on the plane that is indicated by the dotted line 7 7 in Fig. 3.

Having reference to the drawings, the main features of our fixture are a back, as 1, opposite side arms 2 and 3, and a web-like roll-support 4. The back 1 in practice may be of any approved form or shape and may be fitted for application and attachment in approved manner to any desired support. In
30 the present instance it is formed with slots 11 11, Figs. 3 and 4, through which may be passed the stems of bolts or screws serving to connect it with a wall or the like. In conformity with our invention the web-like roll-support 4, hereinafter described, is fixedly
40 connected with one of the side arms, herein the arm 3. Consequently it is necessary to provide for relative movement between the said roll-support and the other side arm 2 in order to permit the free end of the roll-support and the side arm to be separated from
45 each other, so as to enable a roll or package of paper to be slipped upon the roll-support

in the direction of the length of the roll-support and also enable the core of such roll or
50 package to be pulled off the roll-support at the said free end of the latter after the paper has been used up preliminary to applying a fresh roll or package. This relative movement is secured in the present instance by
55 connecting the arm 2 with the back 1 in a manner enabling such arm to be approached to the end of the roll-support for the purpose of retaining a roll or package of paper in place upon the roll-support after having been applied to the latter or withdrawn from proximity to the free end of the roll-support to give
60 opportunity for the application of a roll or package of paper to the roll-support and the removal of the roll or package from the roll-support, if desired, or of its core after the paper has been used up. The means of effecting the
65 movable connection may vary more or less in practice. In the illustrated embodiment of the invention the inner end of the side arm 2 is furnished with a pintle 21, shown as extending
70 vertically and connected at its upper and lower ends, respectively, with lugs 22 23, respectively, forming part of the arm 2, and the back 1 at the end thereof, which is shown in
75 Figs. 1 and 4, is horizontally notched at 12 and 13, respectively, to receive the lugs 22 23, and at the back side thereof is formed with projecting lips 24 25, which receive between them the said pintle. The described construction provides the end of the back 1 with a
80 bearing opening rearwardly and adapted to receive the pintle 21 of the movable side arm 2. When the fixture is applied to a wall or the like support, the surface of the latter will
85 prevent the pintle from passing out of the said bearing at the rear thereof. Consequently it is not indispensable that means should be provided for securing the pintle in the bearing prior to setting up the fixture for
90 use. However, we contemplate in practice forming the back of metal which may be bent without breaking and bending over one of the lips, as shown in the case of the lip 25 in
95 Fig. 4, sufficiently to prevent the escape or withdrawal of the pintle from the bearing.

The engagement of the lugs 22 and 23 with the corresponding walls of the notches 12 and 13 prevents vertical movement of the movable side arm relative to the back. The arm 3 in the present instance is shown attached to the back 1 by means of screws 31 31, Fig. 4.

We provide means for holding the movable side arm 2 locked or latched in its working position, closed against the free end of the roll-support 4. The locking or latching means may vary in character and application in practice. We have shown herein the movable side arm 2 as furnished at its inner side with a projection 241, the latter extending in the closed position of the said side arm in the direction of the length of the fixture. The said projection is notched, as at 26, Fig. 6, and furnished with a locking-shoulder. The free end of the roll-support is slotted, as at 41, Figs. 3 and 6, to receive the projection 241 of the side arm 2, and it is furnished with a spring-catch 42, having its free or engaging end arranged in the slot 41, the said free end being furnished with a shoulder to engage with the shoulder of the projection 241 and in advance of said shoulder having an oblique deflecting-surface, which is designed to make contact with the outer end of the projection 241 as the parts come together for the purpose of guiding the said free extremity of the catch past the outer end of the projection 241 into proper engaging position. The spring-catch 42 is attached to the rear side of the roll-support 4 by means of one or more screws 45 and washers 46, which latter fit between the head of the said screw and the surface of the strip of which the catch is formed. The inner end of the slot 41 extends far enough beyond the free extremity of the projection 241 to leave when the parts are closed and locked or latched together, as in Figs. 3 and 6, an opening through which the intermediate portion of the spring-catch is accessible. By means of a suitable tool or implement inserted through this opening the spring-catch may be pressed out of engagement with the projection 241, thereby releasing the movable side arm 2, so as to permit the latter to be swung away from the roll-support. When a roll or package of paper surrounds the roll-support, the said opening is concealed; but after the paper has been removed the unlocking or unlatching may be effected in the manner stated and without first removing the core, if desired, as by passing the tool or implement through an opening which may be left in the core for the purpose or by causing

the said tool or implement to puncture the material of the core.

Figs. 1, 2, and 7 of the drawings show a roll or package of paper applied to the holder. For the purpose of supporting the said roll or package in a flattened condition the roll-support 4 is made wide and thin, as indicated by Figs. 3 and 7, being of a shape to facilitate its entrance between the opposite sides of the flattened-out core 51, of pasteboard or the like. In order to accommodate the radial binder 53, by which the layers of paper at one side of the roll or package are held together, as indicated in Fig. 7, the roll-support has an elongated slot extending lengthwise of the same from one end thereof. In order to retain the roll or package in a concaved shape with the usual lines of weakness at the concave side, the roll-support 4 is formed of considerable width vertically and is curved, as shown, to produce a concavo-convex shape thereof, which is represented in Fig. 7. For convenience we term the roll-support a "web-like concave roll-support." By reason of the fact that the web-like roll-support is fixedly connected with the arm 3 it is not liable to be mislaid as a result of having been removed from the fixture, and it cannot be torn. It cannot be forcibly extracted from the closed and latched or locked fixture.

In instances heretofore in which a core or roll-support formed separately of sheet material has been employed in conjunction with fixed side arms considerable annoyance has been experienced growing out of the fact that mischievous and dishonest persons have learned to bend the said core or roll-support and spring it out of its grooves in the said side arms, then taking away the roll of paper and core or roll-support. Our present invention puts an end to such practice, for the core or roll-support thereof forms a rigid portion of the arm with which it is connected.

We claim as our invention—

The improved toilet-paper fixture having the wide web-like concave roll-support, and the relatively movable side arms, with one of which the said roll-support is fixedly connected.

In testimony whereof we affix our signatures in presence of two witnesses.

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Witnesses:

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