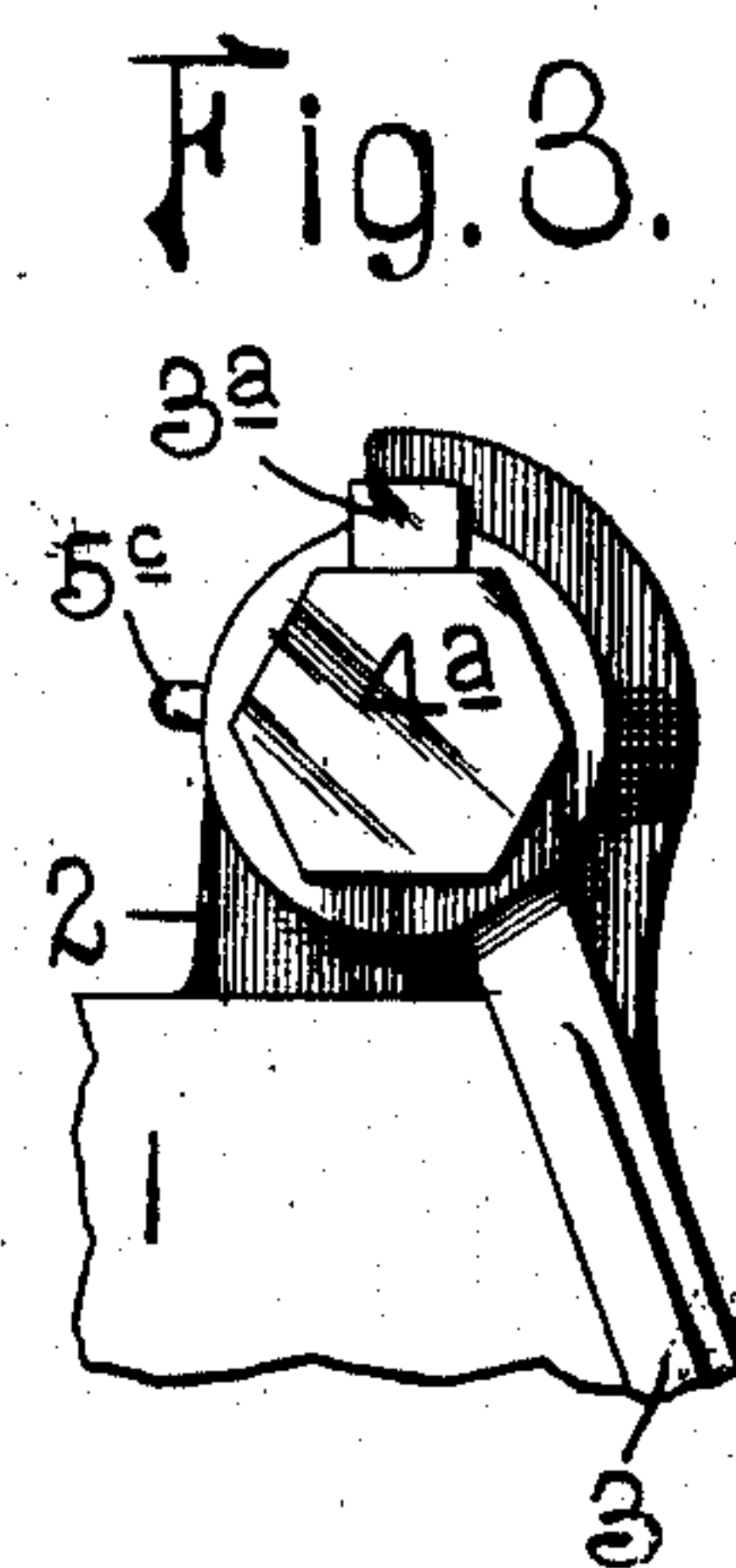
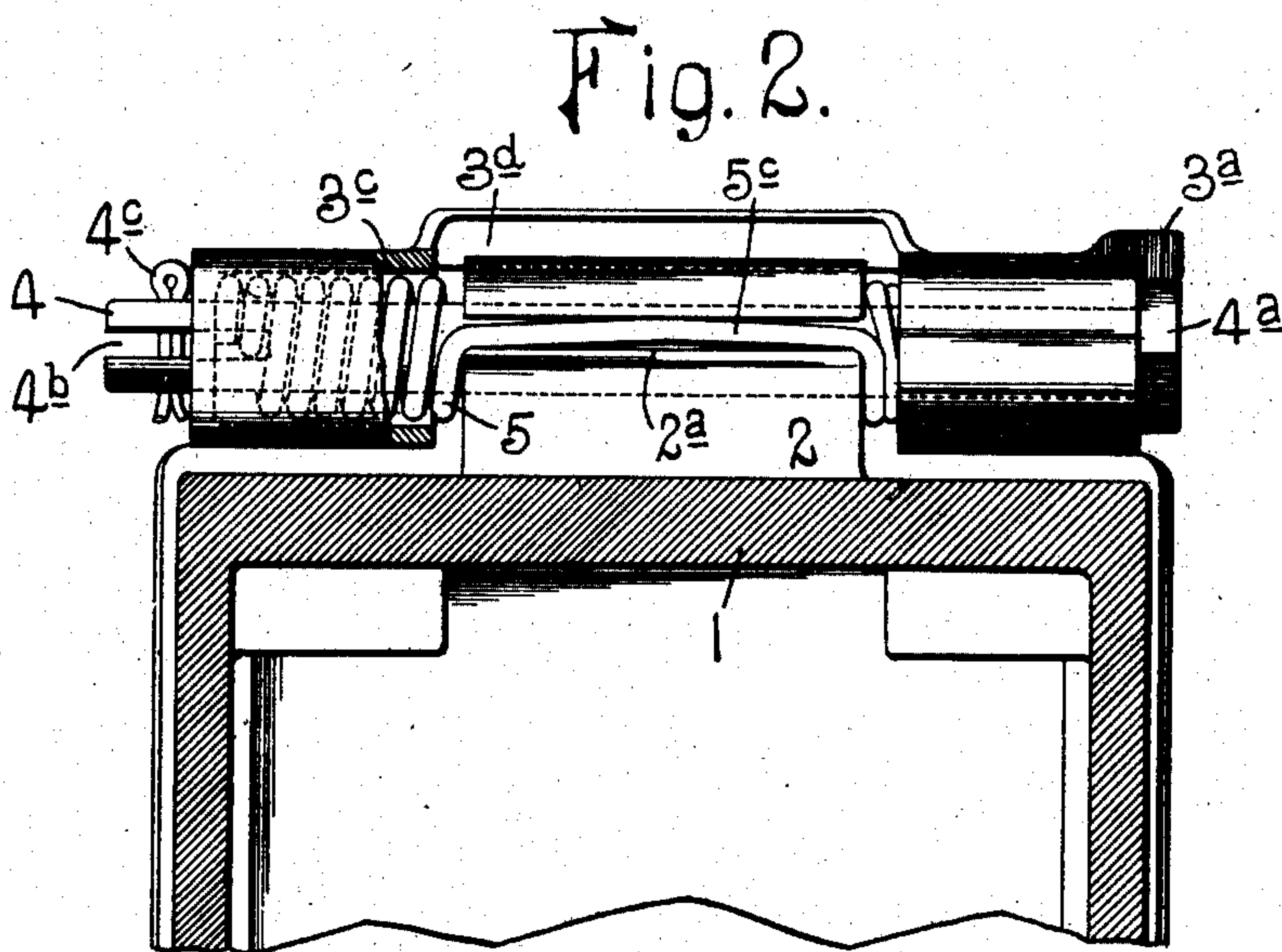
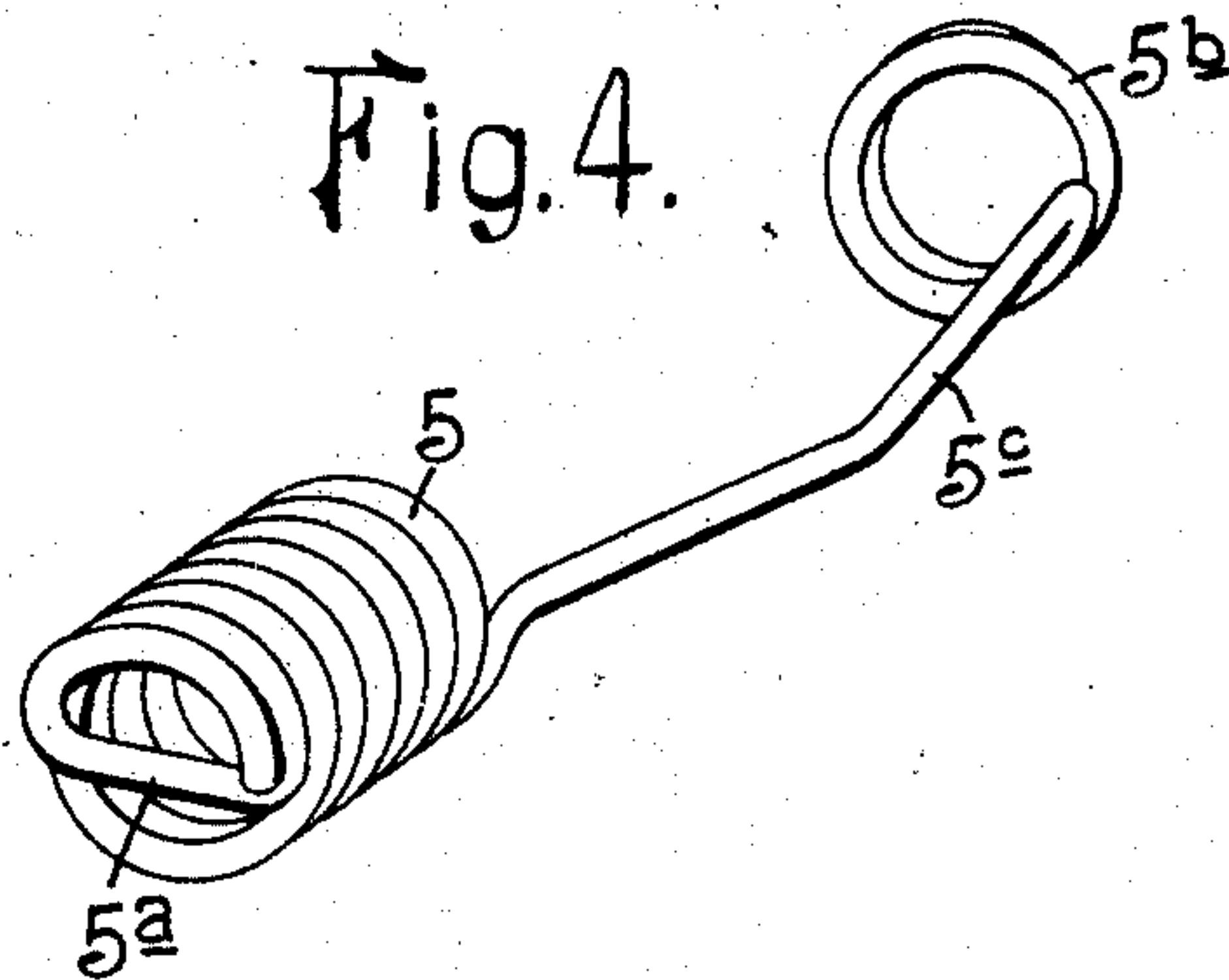
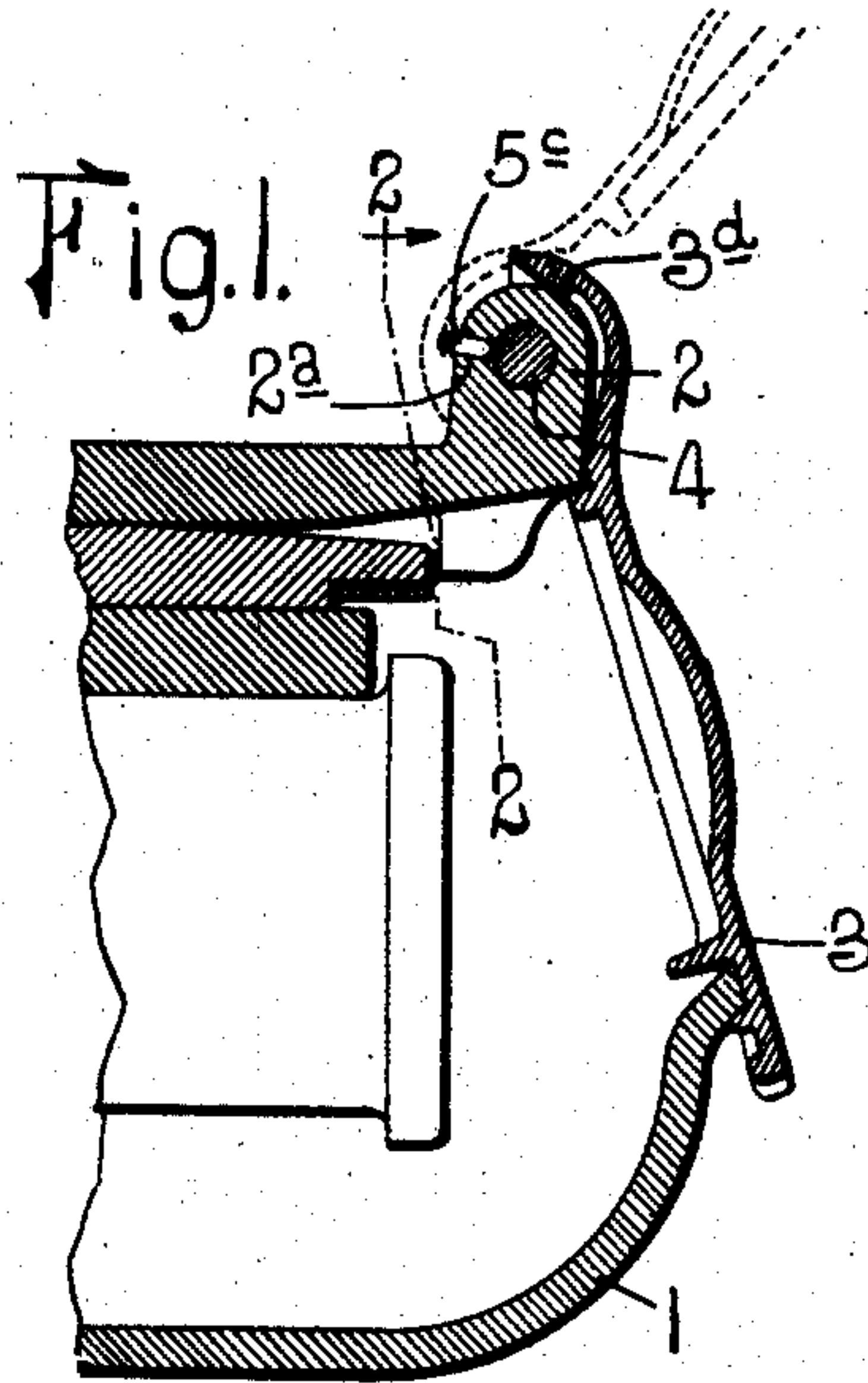


No. 865,070.

PATENTED SEPT. 3, 1907.

A. WISSLER.
JOURNAL BOX LID.
APPLICATION FILED SEPT. 24, 1906.



Witnesses
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UNITED STATES PATENT OFFICE.

ADOLPH WISSLER, OF ST. LOUIS, MISSOURI, ASSIGNOR TO LEO EHRLICH, OF ST. LOUIS, MISSOURI.

JOURNAL-BOX LID.

No. 865,070.

Specification of Letters Patent.

Patented Sept. 3, 1907.

Application filed September 24, 1906. Serial No. 335,908.

To all whom it may concern:

Be it known that I, ADOLPH WISSLER, a citizen of the United States, residing at St. Louis, Missouri, have invented a certain new and useful Improvement in Journal-Box Lids, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a vertical sectional view through a journal box provided with my improved lid; Fig. 2 is an enlarged elevational view, partly in section, on the line 2—2 of Fig. 1; Fig. 3 is a side elevational view showing the upper or hinged portion of the lid; and Fig. 4 is a detail view of the spring.

This invention relates to a new and useful improvement in journal box lids, the object being to provide the lid with means whereby it may be held in its raised position and when said lid is released a spring exerts its energy to force said lid to its closed position.

Another object is to provide means whereby the tension of said spring on the lid may be regulated.

With these objects in view, the invention consists in the construction, arrangement and combination of the several parts all as will be hereinafter described and afterwards pointed out in the claims.

In the drawings, 1 indicates a journal box which preferably conforms to the Master Car Builders' standard, and is provided with an opening in its outer end for inspection and oiling purposes. The upper outer edge of the box is provided with the usual hinge lug 2, which, in this instance, has its back face slotted as at 2^a.

3 is the lid whose under face is provided with the usual seats to receive the lips around the mouth of the opening in the journal box.

4 is the pintle or pivot bolt having a head 4^a at one end and an opening 4^b in its opposite end. The head of this bolt coöperates with a projection 3^a on one of the hinge eyes of the lid, as shown in Figs. 2 and 3. When the head of the bolt is home it is by this means prevented from turning, but when the bolt is slid longitudinally so that its head is disengaged from said projections said bolt may be turned.

5 indicates a spring which, as shown in Figs. 2 and 4, is coiled at one end, one extremity of said coil being provided with a cross member 5^a which is designed to fit in the opening 4^b of the bolt. The coiled portion of the spring is received in the hollow hinge eye 3^c of the lid, as shown in Fig. 2. The opposite end of the spring is coiled as at 5^b so as to embrace the bolt 4. This eye is connected to the coiled portion of the spring by portion 5^c which is seated in the slot 2^a, the portion 5^c being bent or provided with a slight crown so as to project beyond the slot 2^a a short distance.

3^d indicates a hook preferably formed on the rear edge

of the hood portion of the lid which houses in the lug 2.

The operation of the device is as follows: When the parts are assembled, as shown in Fig. 2, a cotter pin 4^c being absent, the head 4^a of the bolt may be pulled out so as to be free from the lug 3^a, in which event the bolt may be turned to place the spring 5 under tension; when the proper amount of tension is secured the head 4^a is moved into engagement with the lug 3^a, after which the cotter pin 4^c is inserted in position and prevents longitudinal withdrawal of the bolt 4. The tension of the spring is exerted towards holding the lid in its closed position. When the lid is raised, however, the hook portion thereof engages the portion 5^c of the spring, as shown by dotted lines in Fig. 1 and holds the lid elevated. To lower the lid it is only necessary to exert sufficient pressure to cause the hook to force the portion 5^c into the slot 2^a, thus releasing itself and permitting the tension of the spring to assist gravity in forcing the lid to its home position.

Having thus described the invention, what is claimed as new and desired to be secured by Letters Patent is:

1. The combination of a car axle box provided with a lug to receive a transversely disposed pintle, a pintle in said lug, a lid hinged to said pintle, and a spring having a straight portion which extends parallel to the pintle behind the lug and is adapted to be engaged by a portion on the lid to hold the lid open; substantially as described.

2. The combination of a car axle box having a slotted lug thereon, a lid, a pintle pivotally connecting the lid with said lug, and a spring mounted on the pintle and having a portion entering said slot for engagement with the lid in its raised position; substantially as described.

3. The combination of a car axle box having a lug thereon, a pintle passing through said lug, a lid hinged to said pintle and provided with means to prevent independent rotation of said pintle, a spring having its ends coiled around said pintle on each side of said lug and having a connecting portion bridging said lug, and means on the lid for engaging the connecting portion of the spring when said lid is raised; substantially as described.

4. The combination of a car axle box having a lug thereon, a pintle arranged in said lug, said pintle having a head at one end and a slot in the opposite end, a lid mounted on said pintle and having a projection for engagement with the head on said pintle, a spring having its ends coiled around the pintle on each side of the lug, said coiled portions being connected together by a piece bridging the lug, and one end of one of said coiled portions engaging the slot in the end of the pintle, and a cotter pin in the slotted end of the pintle for holding said pintle against longitudinal movement after the tension of the spring has been adjusted, there being a lip on the lid for engagement with the connecting portion of the spring when the lid is raised; substantially as described.

In testimony whereof I hereunto affix my signature in the presence of two witnesses, this twenty first day of September, 1906.

ADOLPH WISSLER.

Witnesses:

LENORE WILSON,
GEORGE BAKEWELL.