

J. R. SUNDEE.

SPRING LID BOX.

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1,069,299.

Patented Aug. 5, 1913.

Fig. 1.

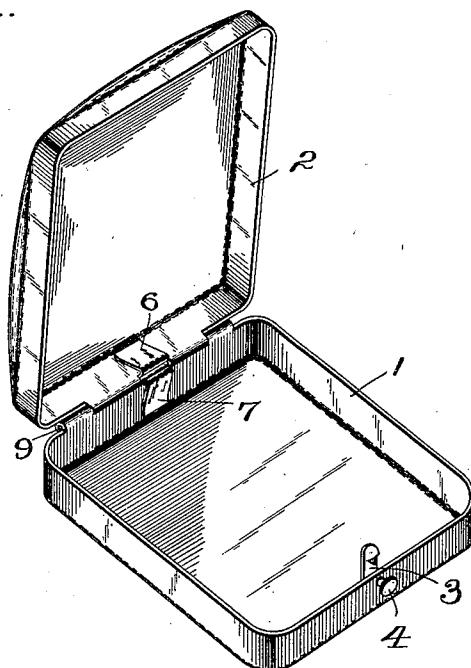
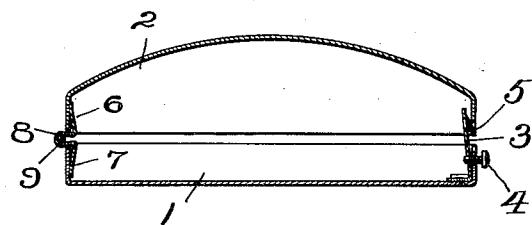


Fig. 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

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SPRING-LID BOX.

1,069,299.

Specification of Letters Patent.

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Application filed February 2, 1912. Serial No. 674,905.

To all whom it may concern:

Be it known that I, JOHN R. SUNDEE, a citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented new and useful Improvements in Spring-Lid Boxes, of which the following is a specification.

This invention relates to the class of boxes or cases having a hinged lid or cover provided with a locking catch and a spring for automatically opening the lid when released by pressing the push button of the catch.

The principal object of my invention is the provision of an improved lid-opening spring of simple construction which can be produced at nominal cost.

A further object is to so construct the spring that it can be readily applied to ordinary boxes of the above-mentioned class, especially jewelry boxes or cases, without requiring any change or reconstruction thereof.

In the accompanying drawings: Figure 1 is a perspective view of a sheet-metal jewelry box embodying the invention, the usual velvet or other ornamental covering and the pads being omitted. Fig. 2 is a transverse vertical section of the box.

Similar characters of reference indicate corresponding parts in both figures.

In the construction shown in the drawings, the body 1 of the box and its hinged lid or cover 2, are stamped of sheet metal, but if desired, the box may be made of any other suitable material.

Located on the front wall of the box-body is a spring catch 3 of any suitable or well known construction provided with the usual push button 4 and adapted to interlock with the customary lip 5 of the lid.

The improved lid-opening spring is preferably bent or stamped from a single strip of spring-steel and comprises a pair of elastic leaves or tongues 6, 7 bearing respectively against the rear walls of the box-body and lid and a substantially U-shaped bend 8 which connects said tongues and embraces the hinge-pin or pintle 9 of the lid, so as to hold the spring in place. The bend 8 is located centrally in the steel strip and may be formed by stamping therein a transverse indentation of sufficient depth to re-

ceive the hinge-pintle, the open side of the bend facing the front of the box.

In the open position of the lid, the spring 55 tongues 6, 7 are relaxed and located at an acute angle to the bend 8, as shown in Fig. 1, but when the lid is closed the tongues are sprung forwardly nearly at right angles to said bend or substantially in line with each 60 other, as shown in Fig. 2. It follows that when the lid is released by pressing the button 4, the strained tongues react and throw the lid to the open position shown in Fig. 1.

A plurality of such lid-opening springs may be used according to the size of the box, but ordinarily a single spring located centrally of the hinge-pintle is sufficient.

While the bend 8 holds the spring from 70 longitudinal displacement on the pintle, the spring is confined against lateral displacement by the hinge-eyes 10 at opposite sides thereof.

The complete lid-opening spring can be 75 cheaply stamped of spring-steel by a single operation, rendering its cost exceedingly small. The spring can be easily applied to ordinary boxes of this kind in assembling the body and lid by simply placing the bend 80 8 in alinement with the pintle-eyes and then passing the pintle through the eyes and said bend. Separate fastenings for the spring are thus dispensed with and the cost of the box is correspondingly reduced.

I claim as my invention:

The combination with a box-body and its hinged lid, of a lid-opening spring located inside of the box and bent from a single strip of spring-steel, said strip being provided in its front side with a central, transverse indentation which receives the pintle of the lid-hinge and the end portions of the strip bearing respectively against the rear walls of the box-body and the lid and standing normally at an acute angle to said indentation.

Witness my hand this 1st day of February, 1912.

JOHN R. SUNDEE.

Witnesses:

EDWARD WARNER,
C. F. GEYER.