

No. 697,668.

Patented Apr. 15, 1902.

F. J. SCHLEICHER.

PAPER BOX.

(Application filed Dec. 15, 1900.)

(No Model.)

Fig. II

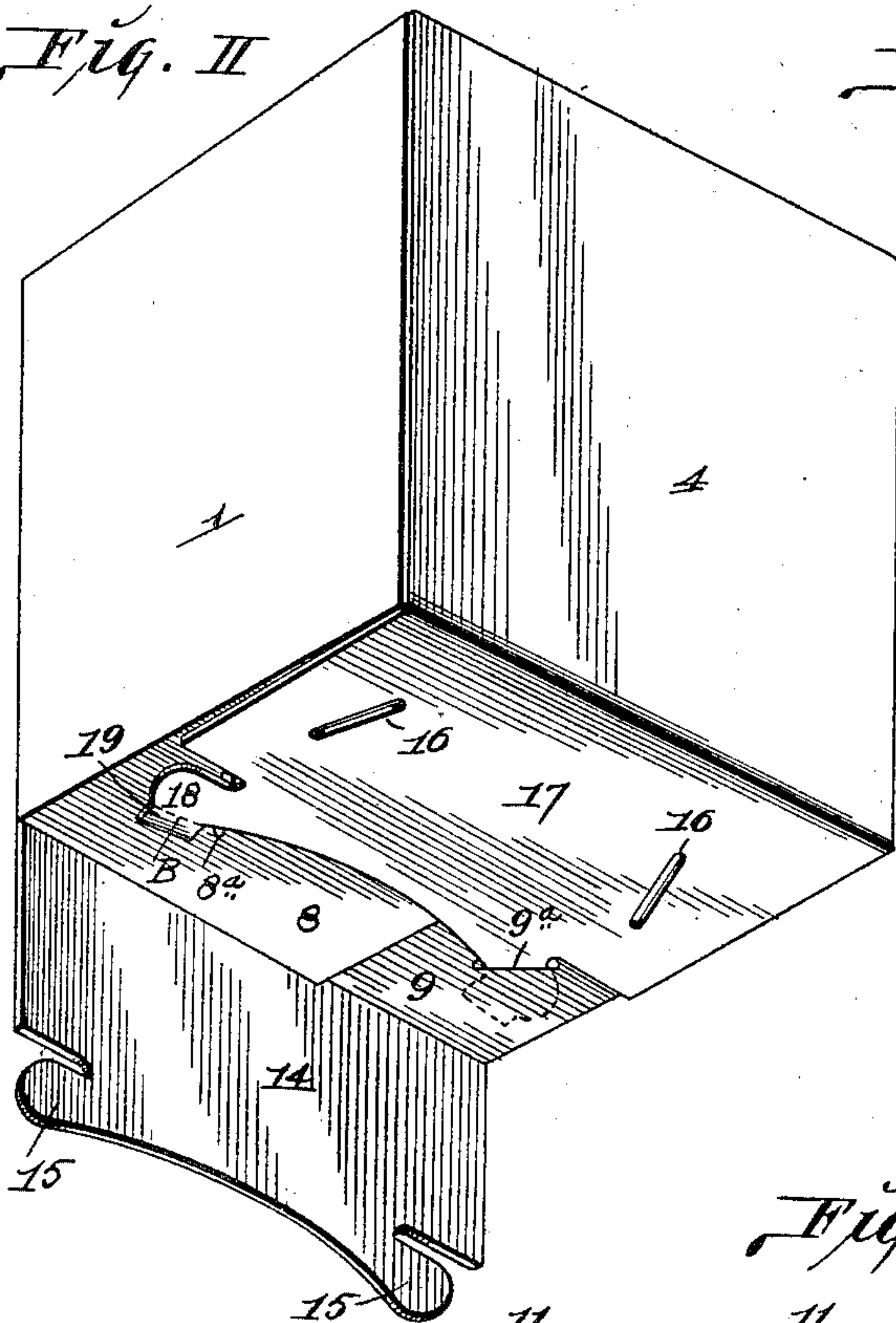


Fig. III.

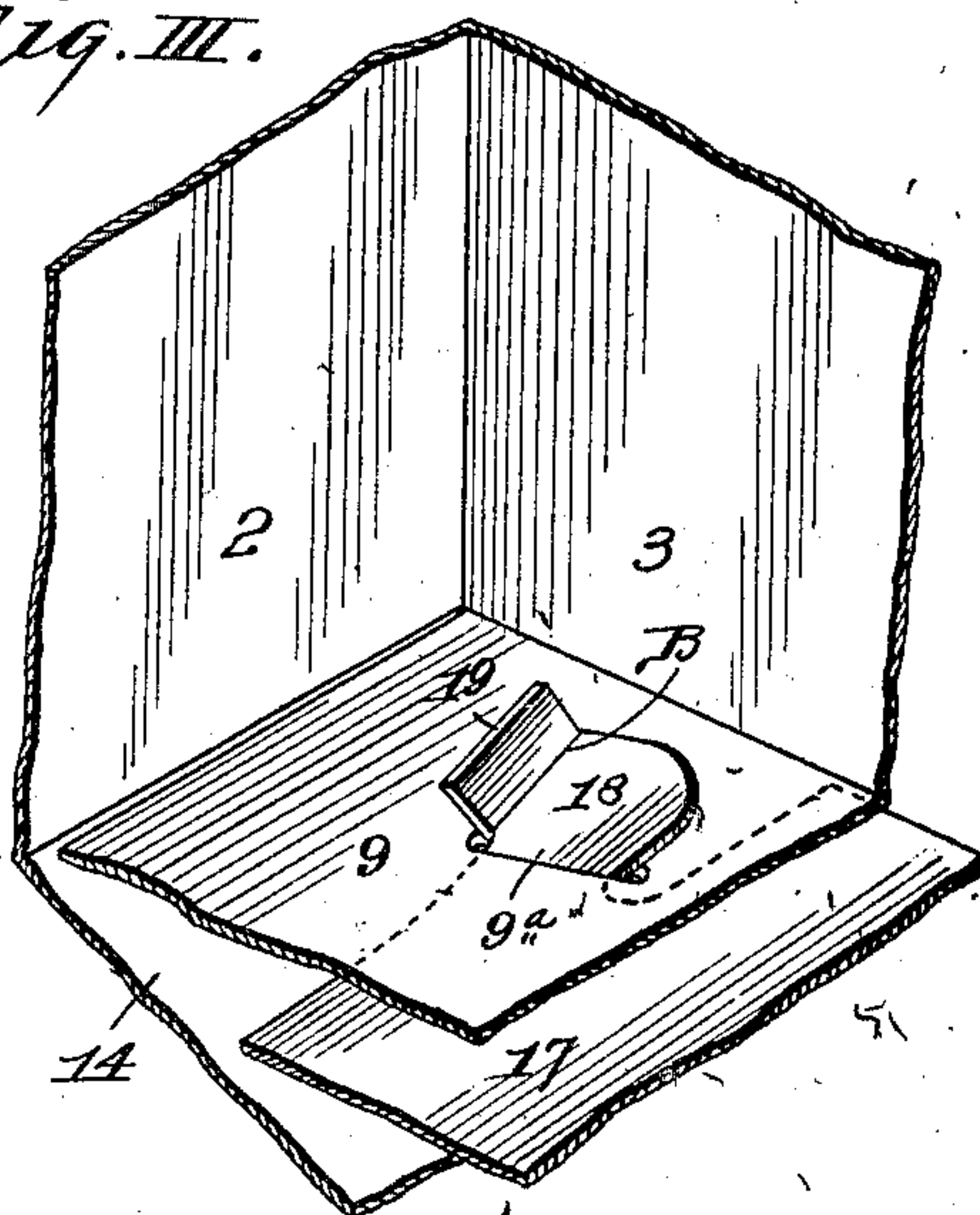
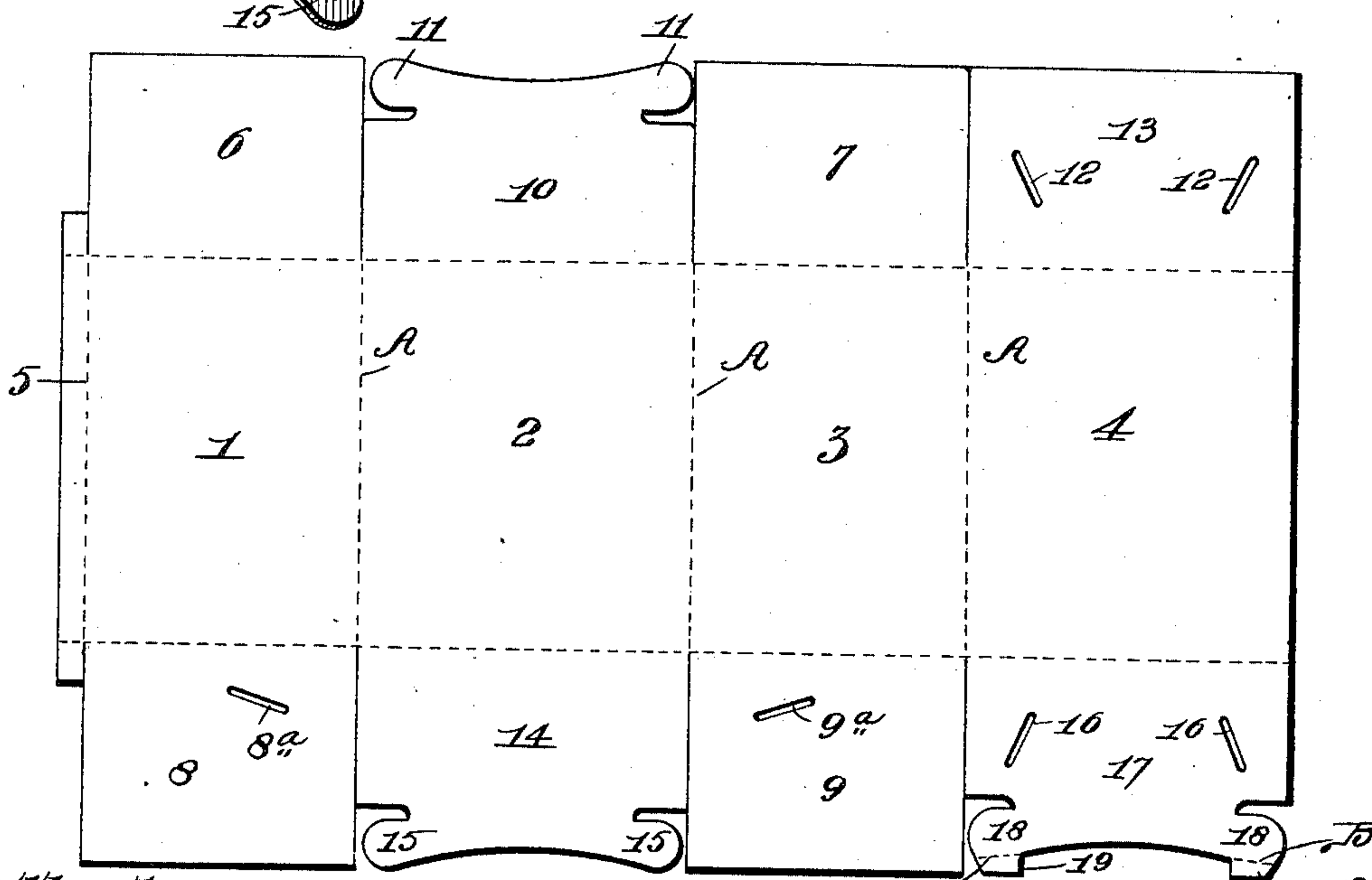


Fig. I.



attest:-
W.D. Smith
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 By Knight Bratty's.

UNITED STATES PATENT OFFICE.

FRANK J. SCHLEICHER, OF ST. LOUIS, MISSOURI, ASSIGNOR TO THE ST. LOUIS
PAPER BOX COMPANY, OF ST. LOUIS, MISSOURI, A CORPORATION.

PAPER BOX.

SPECIFICATION forming part of Letters Patent No. 697,668, dated April 15, 1902.

Application filed December 15, 1900. Serial No. 40,049. (No model.)

To all whom it may concern:

Be it known that I, FRANK J. SCHLEICHER, a citizen of the United States, residing in the city of St. Louis, in the State of Missouri, have
5 invented certain new and useful Improvements in Paper Boxes, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

10 My invention relates to a paper box or carton; and the invention has for its object to produce a secure lock in the overlapping flaps which constitute the bottom of the box and through means of which the bottom flaps
15 will be held in such manner as to effectually prevent separation and consequent accidental opening of the bottom of the box in use.

My invention consists in features of novelty hereinafter fully described, and pointed
20 out in the claims.

Figure I is a view illustrating the blank from which the box is constructed. Fig. II is a perspective view of the box, showing the bottom flaps partially assembled. Fig. III is
25 an enlarged perspective view of one corner of the bottom of the box, showing the retaining-tongue in locked position.

The box is made up of the blank shown in Fig. I and in which 1, 2, 3, and 4 designate
30 the side-wall sections adapted to be bent upon the scored lines A, and carried by the section 1 is a strip 5, that is adapted to be applied to the section 4 at the opposite end of the blank when the sections are bent into po-
35 sition to form the side walls of the box. The wall-sections 1 and 3, which oppose each other at opposite sides of the made-up box, are provided, respectively, with imperforate flaps 6 and 7 at their upper ends and at their
40 lower ends with flaps 8 and 9, containing slits 8^a and 9^a. The section 2 is provided at its upper end with a flap 10, bearing tongues 11, that are adapted to enter slits 12 in the upper flap 13 of the opposing side-wall section 4 to secure the closure of the upper end
45 of the box. At the lower end of the section 2 is a flap 14, provided with tongues 15, adapted to enter slits 16 in a flap 17, carried by the section 4 at its lower end.

50 No invention *per se* is herein claimed for

the construction of the parts thus far described.

My invention relates to locking means, that will now be described. 18 designates a pair of main tongues carried by the flap 17 and
55 adapted to enter the slits 8^a and 9^a in the flaps 8 and 9 when said flaps are bent inwardly, in which connection it is proper to state that the bent-over flaps 8 and 9 and the connecting-flap 17 occupy a position in the
60 completed box within the flap 14, as illustrated in Fig. II. Each of the tongues 18 carries an auxiliary tongue 19, projecting from the edge thereof, so as to increase the width of the tongue 18. These auxiliary
65 tongues are adapted to be bent over onto said tongue or at an angle thereto on the scored lines B. (See Fig. I.) In making up the box the auxiliary tongues 19 are bent over
70 onto the tongues 18, so that the width is reduced to substantially the same or less than the slits 8^a and 9^a, through which the tongues 18 are passed to connect the flaps 17, 8, and 9. After the tongues 18, with the auxiliary
75 tongues, have been passed through the slits 8^a and 9^a the auxiliary tongues naturally tend to assume their former positions and move into an angle with respect to the tongues 18, as seen in Fig. III, or said auxiliary tongues
80 may be bent outwardly away from the tongues 18 by the fingers, so that they will assume the position at angles to the tongues 18 or in line therewith, thereby rendering the combined width of the tongues 18 and auxiliary tongues
85 the same as they were before their passage through the slits 8^a and 9^a.

From the foregoing it will be seen that when the tongues 18, with their auxiliary
tongues, have been passed through the slits in narrowed condition their combined width
90 is increased and rendered greater than the slits through which they have been passed, thereby effectually preventing the escape of the tongues through the slits and providing a secure lock that prevents separation of the
95 flaps 8, 9, and 17 and renders the bottom of the box secure.

I claim as my invention—

1. A box comprising side walls, flaps forming an end wall, a portion of said flaps being 100

provided with a slit, and one of said flaps being provided within the side edges thereof with a tongue having a rounded corner on one side, and an auxiliary folding tongue projecting forwardly from the other side of the main tongue and in a line therewith.

2. A box comprising side walls, flaps forming an end wall, a portion of said flaps being provided with slits, and one of said flaps being provided within the side edges thereof with main tongues secured upon opposite sides of said flaps and extending outwardly therefrom, each main tongue having a rounded corner on one side and an auxiliary folding tongue projecting forwardly from the other side of the main tongue, and in a line therewith.

3. A box comprising side walls, flaps forming an end wall of the box, a portion of said flaps being provided with slits; and one of said flaps having its two free corners pro-

vided within the side edges thereof with tongues extending outwardly therefrom in opposite directions and a cut-away portion extending from one tongue to the other.

4. A box comprising side walls; two flaps disposed opposite one another on one end of the side walls and provided with slits; a third flap provided with slits and having main tongues secured upon opposite sides of the flap and extending outwardly therefrom, each main tongue having a rounded corner on one side and an auxiliary folding tongue projecting forwardly from the other side of the main tongue and in a line therewith; and a fourth flap secured opposite the third flap and having tongues adapted to enter the slits in said third flap.

FRANK J. SCHLEICHER.

In presence of—

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