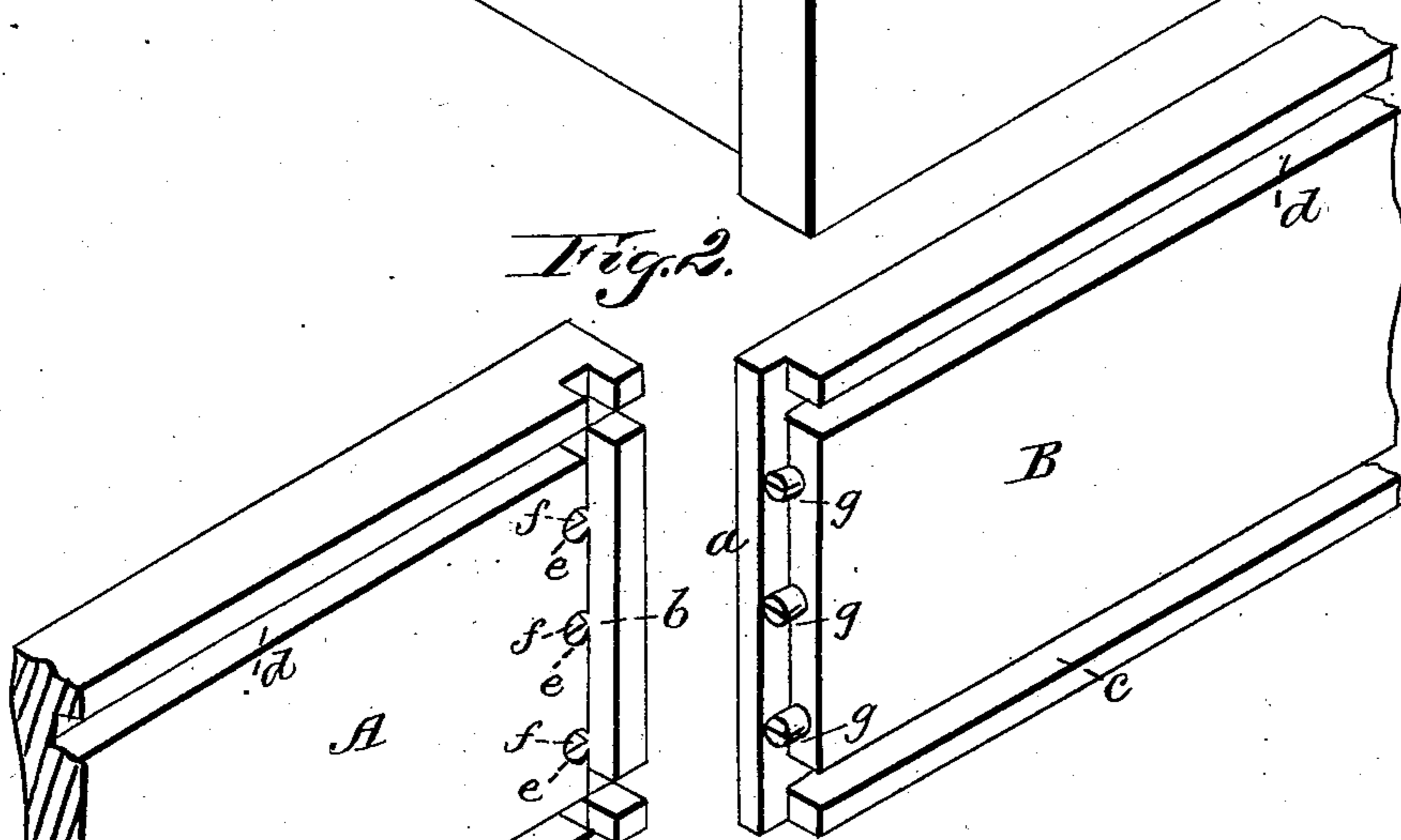
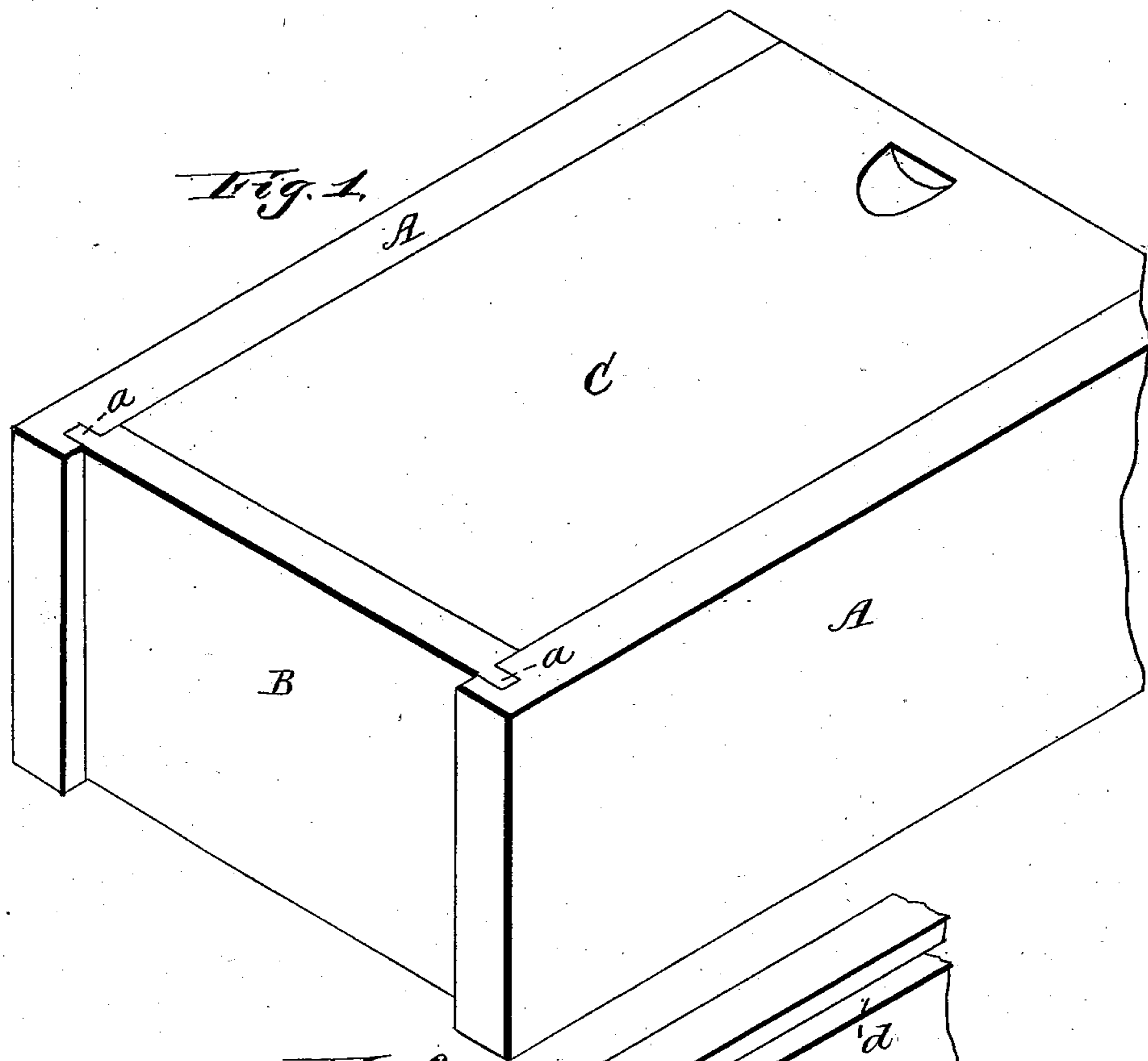


(Model.)

F. C. ROCKWELL.
KNOCKDOWN PACKING BOX.

No. 255,458.

Patented Mar. 28, 1882.



Witnesses:
W. C. McArthur,
L. L. Miller,

Inventor,
Fred. C. Rockwell.
per Cha. H. Fowler
Attorney.

UNITED STATES PATENT OFFICE.

FRED C. ROCKWELL, OF HARTFORD, CONNECTICUT.

KNOCKDOWN PACKING-BOX.

SPECIFICATION forming part of Letters Patent No. 255,458, dated March 28, 1882.

Application filed September 19, 1881. (Model.)

To all whom it may concern:

Be it known that I, FRED C. ROCKWELL, a citizen of the United States, residing at Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Knockdown Packing-Boxes; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a box constructed in accordance with my invention. Fig. 2 is a similar view of one of the sides and ends thereof, showing them disconnected from each other; and Fig. 3, a detail section and side elevation thereof on an enlarged scale.

The present invention has relation to that class of boxes known as "knockdown" boxes; and the object thereof is to so construct the ends of each section forming the four sides of the box as to form a strong, durable, and perfect joint when connected together, and at the same time admit of the four sides being readily taken apart for packing and transportation. These objects I attain by the construction substantially as shown in the drawings and hereinafter described.

In the accompanying drawings, A represents the sides of the box, and B the ends thereof, the latter having tongues *a*, adapted to enter grooves *b* upon the interior of the sides. The ends and sides may be also formed with grooves *c* *d* for the reception respectively of the bottom and cover of the box. At each end of the sides A are formed a vertical row of circular or other formed openings, *e*, each of which contains a suitable wedge, *f*, preferably disposed horizontally within the same. The ends of the box, at their edges, have a vertical row of pins, *g*, in number to correspond with the number of openings *e*, and are slitted to receive the wedges *f*, so that when the pins are driven into the openings the wedges, as they enter the slits in the

pins, will expand them in the openings and make a tight-fitting joint between the sides and ends of the box that will stand rough usage without becoming loose, and at the same time will be capable of being readily taken apart and packed for economy in shipping. Although it is the purpose to mold or press the several sections forming the box out of suitable pulp, I do not wish to be understood as confining myself to any special material from which to construct them.

In the manufacture of the sections forming the sides and ends of the box from pulp the wedges and slitted pins, also the tongues and grooves, are formed of the same material, and at the same time the sections are formed by suitably-made dies for the purpose, which press them out while the pulp is in a plastic state.

I would further state I do not limit my invention to any special form of openings, wedges, or slitted pins, as they may be variously modified without departing from the principle of my invention.

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

1. In a knockdown box, the sections forming the sides and ends thereof, having respectively suitable openings containing wedges and slitted pins adapted to enter the openings, substantially as and for the purpose set forth.

2. A knockdown box consisting of the sections A, having perpendicular grooves *b*, and the openings *e*, with wedges *f*, in combination with the sections B, having perpendicular tongues *a* and slitted pins *g*, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

FRED C. ROCKWELL.

Witnesses:

J. E. Cox,

J. F. GRATZ.