(No Model.) 2 Sheets—Sheet 1.

A. HEINEMANN.

PACKING CASE.

No. 430,997. Patented June 24, 1890.

Fig: 1.

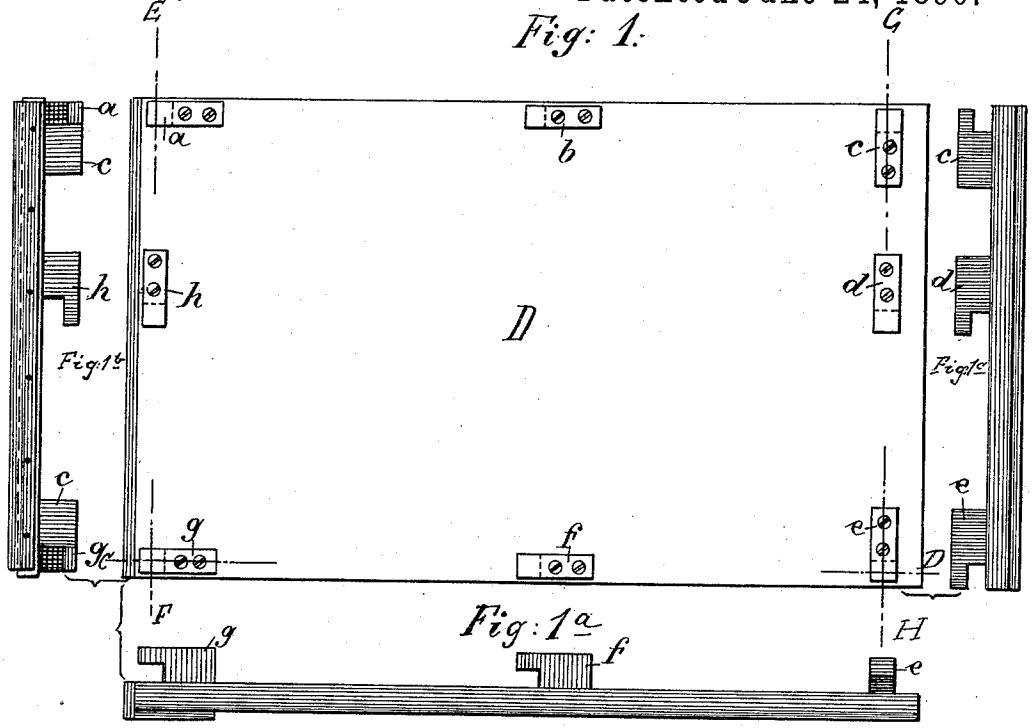
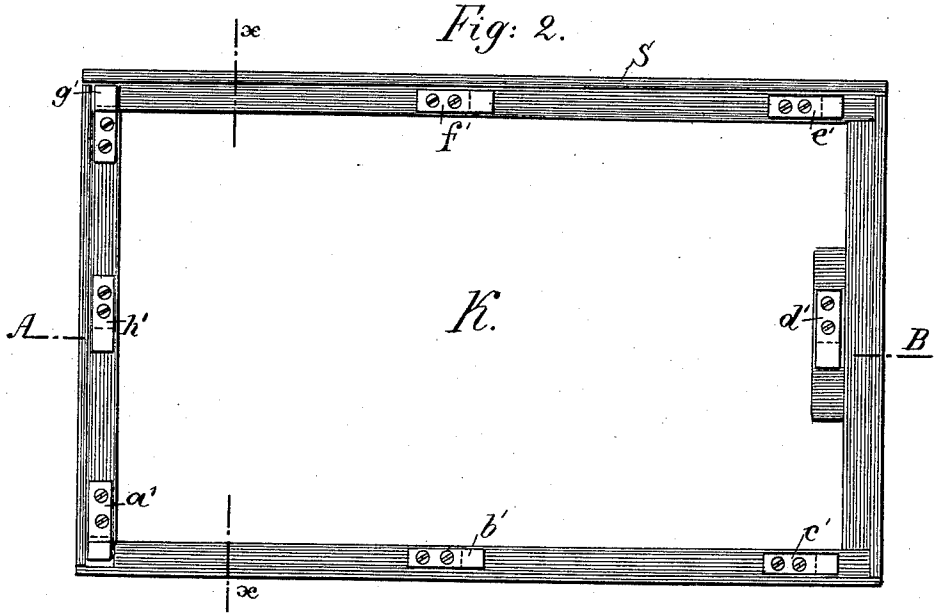


Fig: 1a

Fig: 2.



Witnesses

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(No Model.) 2 Sheets—Sheet 2.

A. HEINEMANN.

PACKING CASE.

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Fig: 3.

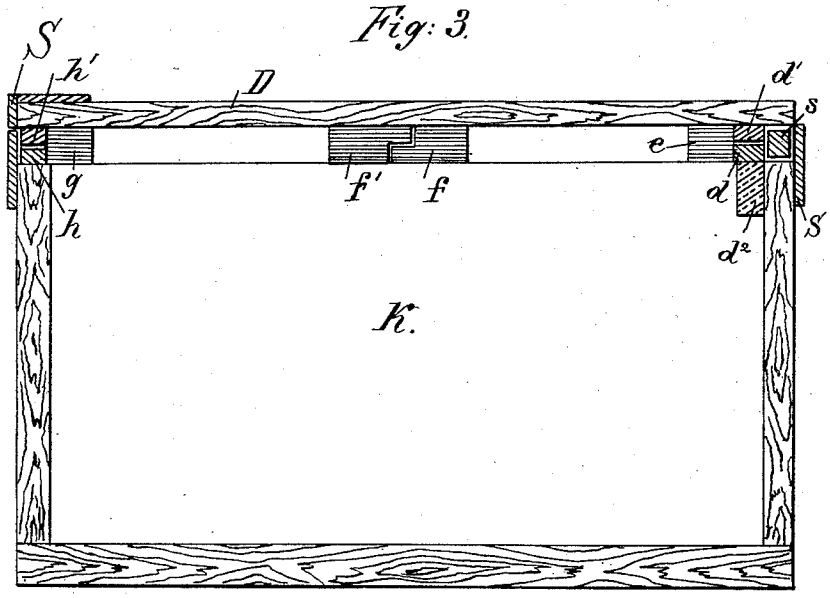


Fig: 4.

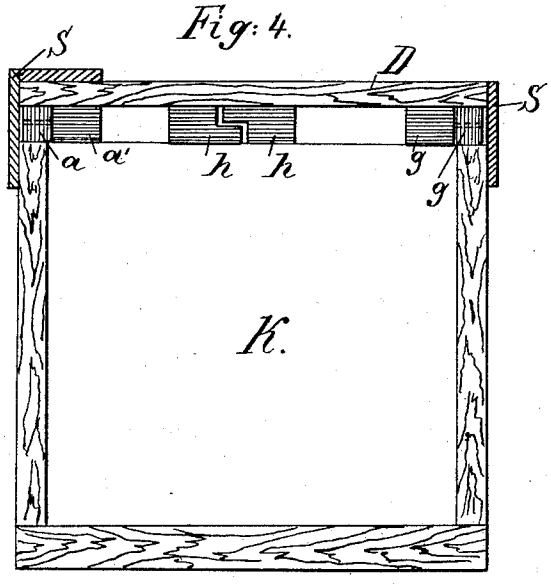


Fig: 5.

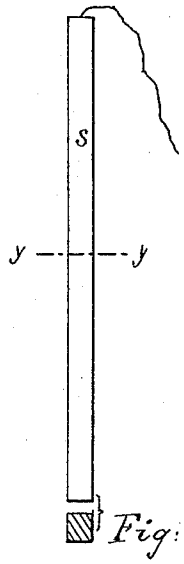


Fig: 5ª

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UNITED STATES PATENT OFFICE.

ADOLPH HEINEMANN, OF HAGEN, PRUSSIA, GERMANY.

PACKING-CASE.

SPECIFICATION forming part of Letters Patent No. 430,997, dated June 24, 1890.

Application filed March 17, 1890. Serial No. 344,144. (No model.)

To all whom it may concern:

Be it known that I, ADOLPH HEINEMANN, a citizen of Prussia, residing at Hagen, Westphalia, Kingdom of Prussia, German Empire, have invented certain new and useful Improvements in Packing-Cases, of which the following is an exact description.

My invention consists of an improved cover or closure for packing-cases, and is constructed so as to provide a safe and reliable closure for the case, at the same time avoiding the necessity of nailing down the cover and thus saving much time in packing and unpacking the same.

In order to make this description more clear, I refer to the accompanying drawings, which form part of this specification, and in which similar letters denote similar parts throughout the several views.

Figure 1 shows a view of the cover. Fig. 1^a is a section on line C D, Fig. 1. Fig. 1^b is a section on line E F, Fig. 1. Fig. 1^c is a section on line G H, Fig. 1. Fig. 2 shows a plan of the case. Fig. 3 is a cross-section on line A B with the case closed. Fig. 4 is a section on line X X with the case closed. Figs. 5 and 5^a are detail views of the bolt S.

The closure consists of the following parts: To the under surface of the cover D of the case K are attached any number of claws or clutches. In the drawings eight are shown, lettered *a b c d e f g h*. The shape of said claws or clutches is very simple and distinctly shown in the drawings. The same are adapted to hook into claws of similar shape affixed to the inside of the case.

For the sake of clearness in the following description, the longer sides of the case shown in the drawings are termed "sides" and the shorter sides "the ends." The claws, which may be of wood or iron, will be termed "hooks." The minimum number of hooks on the cover of the case should be four, one at each corner. Three or even two only may be employed, but hardly form an absolutely safe closure. In covers of large cases more hooks should be employed, the same being arranged along the sides and ends of the cover and case. Of the eight hooks shown in the drawings on the cover D, the two corner ones *a* and *g* at one end run parallel to each other and to the sides of the cover, the ends of their shanks being flush with the inside of the end of the case when the cover is in its proper position on the same. The two hooks *b* and *f* at the sides of the cover point in the same direction. The two corner hooks *c* and *e*, however, lie in a direction parallel to the ends of the case and point in opposite directions to each other, having their shanks turned toward and flush with the insides of the sides of the case. The hooks on this end of the cover are not situated directly at the edge of the same, but are arranged in a line a little distance therefrom. The end auxiliary hooks *d* and *h* lie parallel to each other and to the direction of hooks *c* or *e*.

Corresponding to the hooks on the cover are arranged on the sides and ends of the case hooks *a' b' c' d' e' f' g' h'*. The corner hooks in the case lie at right angles in the horizontal plane to the corner hooks in the cover, while the direction of the side and end auxiliary hooks is parallel to that of the cover auxiliary hooks. The situation of the hooks in the case may be clearly seen from the drawings and needs no further explanation. At one end of the case, however, the hooks are arranged a little distance back from the end, in order to correspond with the hooks *c*, *d*, and *e* on the cover. For this purpose auxiliary hook *d* is provided with a supporting-block *d'*. Thus a space will be left between the points of hooks *c'* and *e'*, the side of *d'*, and the inside of the end of the case. The cover is now placed onto the case with the end hooks *c*, *d*, and *e* lying in this space, and consequently with this end of the cover projecting over the end of the case. On pushing the cover toward the left, hooks *a b c d e f g h* all hook under case-hooks *a' b' c' d' e' f' g' h'*, holding the cover securely on the case.

To prevent the case from being opened or opening of its own accord, a strip of wood or bolt S is slipped through an opening left in the side of the case for the purpose and passes into the space formed at one end of the case by the arrangement of the hooks at that end, as described. This bolt may be sealed by means of a cord attached to it and sealed to the case or in any other convenient manner.

In order to conceal and protect the hooks, strips S may be attached to the sides of the case, or the sides may be allowed to stand higher than the ends of the case, so that their

top corners shall be flush with the upper surface of the cover when in its place. In this case extra strips S S are no longer necessary. In this case the hooks would be arranged inside instead of on the edges of the case sides.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim, and desire to secure by Letters Patent of the United States, is—

In packing-cases, a cover provided with hooks arranged round the edges of its under surface and adapted to slide into hooks arranged on or inside of the sides of the case, said hooks at one end of the case and cover being so arranged as to allow of a space remaining between them and the inside of the corresponding case end, into which space a bolt is passed through a hole arranged for the purpose in the case-side, said bolt adapted to fill out the space between the backs of cover-hooks and inside of case end, for the purpose substantially as described.

In testimony that I claim the foregoing as my invention I have hereto signed my name, in presence of two witnesses, this 23d day of February, 1890.

ADOLPH HEINEMANN.

Witnesses:
GEORG BECKER,
GUSTAV PUTSCH.