(Model.)

L. RACOUILLAT.

Packing Box or Case.

No. 234,725. **Patented Nov. 23, 1880.**

Fig 1.

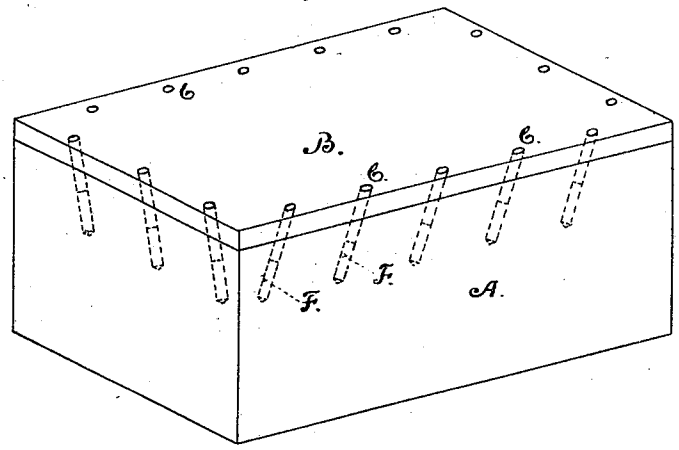


Fig 2.

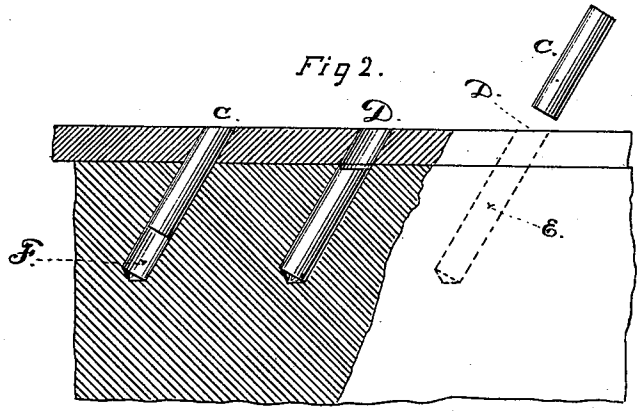
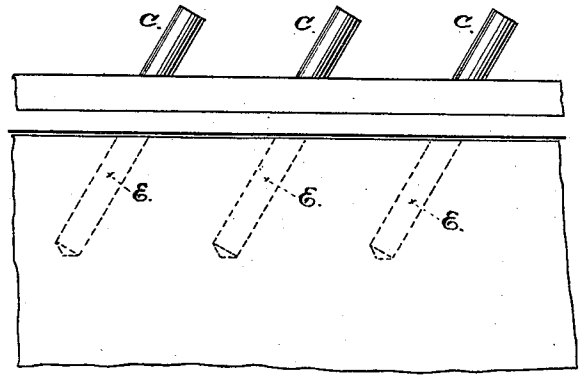


Fig 3.



Witnesses:

Wm. G. Case.

W. Voit.

Inventor:

Ludovic Racouillat

by his Attys., Bonnet Osborn.

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

LUDOVIC RACOUILLAT, OF SAN FRANCISCO, CALIFORNIA.

PACKING BOX OR CASE.

SPECIFICATION forming part of Letters Patent No. 234,725, dated November 23, 1880.

Application filed July 29, 1880. (Model.)

To all whom it may concern:

Be it known that I, LUDOVIC RACOUILLAT, of the city and county of San Francisco, in the State of California, have made and invented a new and useful Improvement in Packing Boxes or Cases to Contain Explosive Compounds, which invention is fully set forth and described in the following specification, and in the accompanying drawings referred to therein.

My invention relates to improvements in packing boxes and cases used to contain explosive compounds and other substances or matter where a non-metallic fastening is desirable.

It has for its object, while permitting of securely fastening the lid or cover, the removal of the lid or cover without danger of igniting or firing the contents of the box where they are of an explosive character.

The boxes or cases to which my invention is more directly applicable are those made of wood, and now generally used to hold and contain explosive compounds of various kinds for purposes of storage and transportation, and the practice has been heretofore to secure the covers upon such boxes by the use of nails and other fastenings of metal. In the operation of driving such fastenings and also of withdrawing them to open the box, great danger was incurred of igniting or firing the contents, and accidents have resulted from the explosion of boxes containing such compounds during the operation of taking off the cover.

The nature of my invention consists of a box or case having holes around and through its cover, and in its body around its edges, combined with pins or other fastenings of wood, the holes in the body of the box being of such length as to permit the pins or fastenings to be forced below or through the cover, as hereinafter described, both to hold the cover in place and to allow it to be readily taken off without danger of exploding the contents of the box, whereby perfect security in fastening the cover and safety in removing it are attained.

In the accompanying drawings, Figure 1 is a perspective view of my improved fastening applied to a box of rectangular shape. Fig. 2 shows a portion of the body and the cover of the box in section, and the manner of applying and operating the fastenings. Fig. 3 shows the manner of protecting the holes in the box that receive the fastenings, to keep them free of dirt or other matter.

As a fastening for covers of boxes and cases where metal fastenings are not desirable I employ pins, pegs, or similarly-shaped fastenings, of wood, which I insert and drive into holes provided in and around the edge of the cover, and into the body of the box around its edge or rim. I make these holes both in the cover and in the box with a pitch or inclination more or less from the perpendicular, and I give the set or row of holes at one side of the box an inclination in one direction, and those at the opposite side an inclination in another direction; or I make several holes with an inclination in one direction, and the remaining holes at the same side of the box with an inclination in the opposite direction, so that when the cover is fixed on by driving or forcing the pins or pegs into these holes, the different inclined positions of these fastenings shall hold the cover more securely and cause it to resist the knocks and blows or forces of any kind to which the corners and edges of the cover are subjected during handling and transportation, as well as to secure it against the weight of the contents within. These pins or fastenings I make a little larger in diameter or cross-section than the size of the holes to receive them, so that they shall drive and fit snugly; and in order to enable the cover to be readily taken off without breaking or destroying the box or cover, and without the application of metal tools of any kind, I provide a simple and effective means whereby the pins or other fastenings, when in place, can be forced or driven down entirely into the body of the box clear of the cover. For this purpose I make the holes in the body of the box somewhat longer than the peg or pin used, so that when the top of the peg is driven down flush with the cover a space below the end of the peg at the bottom of the hole will be provided. This space must be at least of a depth equal to the thickness of the cover, so that the pin can be driven down so as to pass through the hole in the cover.

When the cover of a box or case is secured

in place in this manner it can be readily removed by using a punch of wood, or another peg and a mallet, or other means for driving down the cover pegs or pins into the holes in the box, so as to clear the cover and release it.

During the operation of filling and packing such boxes I protect the holes in the box by means of a strip of paper temporarily fixed or placed across the top of the holes to prevent them from getting filled up, or the explosive compound from entering them when the substance or matter placed in the box is of such character.

In this manner I provide a simple and effective fastening by which the covers of boxes and cases can be fixed in place and removed without injuring or breaking the box, and without employing metallic fastenings of any kind.

The drawings show the relation and application of these several parts in a rectangular box.

A is the box; B, its cover, and C C the wooden pegs or fastenings. D are the holes through the cover; E, the holes in the body of the box around its rim, and F shows the space provided below the peg when it is driven.

Fig. 3 shows the manner of protecting the holes in the box, as above described.

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

A packing box or case having holes around and through its cover and in its body around its edges, in combination with pins or other fastenings of wood, the said holes in the body of the box being of such length as to permit the pins or fastenings to be forced below or through the cover in taking off the cover.

Witness my hand and seal.

LUDOVIC RACOUILLAT. [L. S.]

In presence of—

GEO. T. KNOX,

WM. F. CLARK.