

(No Model.)

H. E. McNALLY.
TUB FASTENER.

No. 442,196.

Patented Dec. 9, 1890.

Fig. 1.

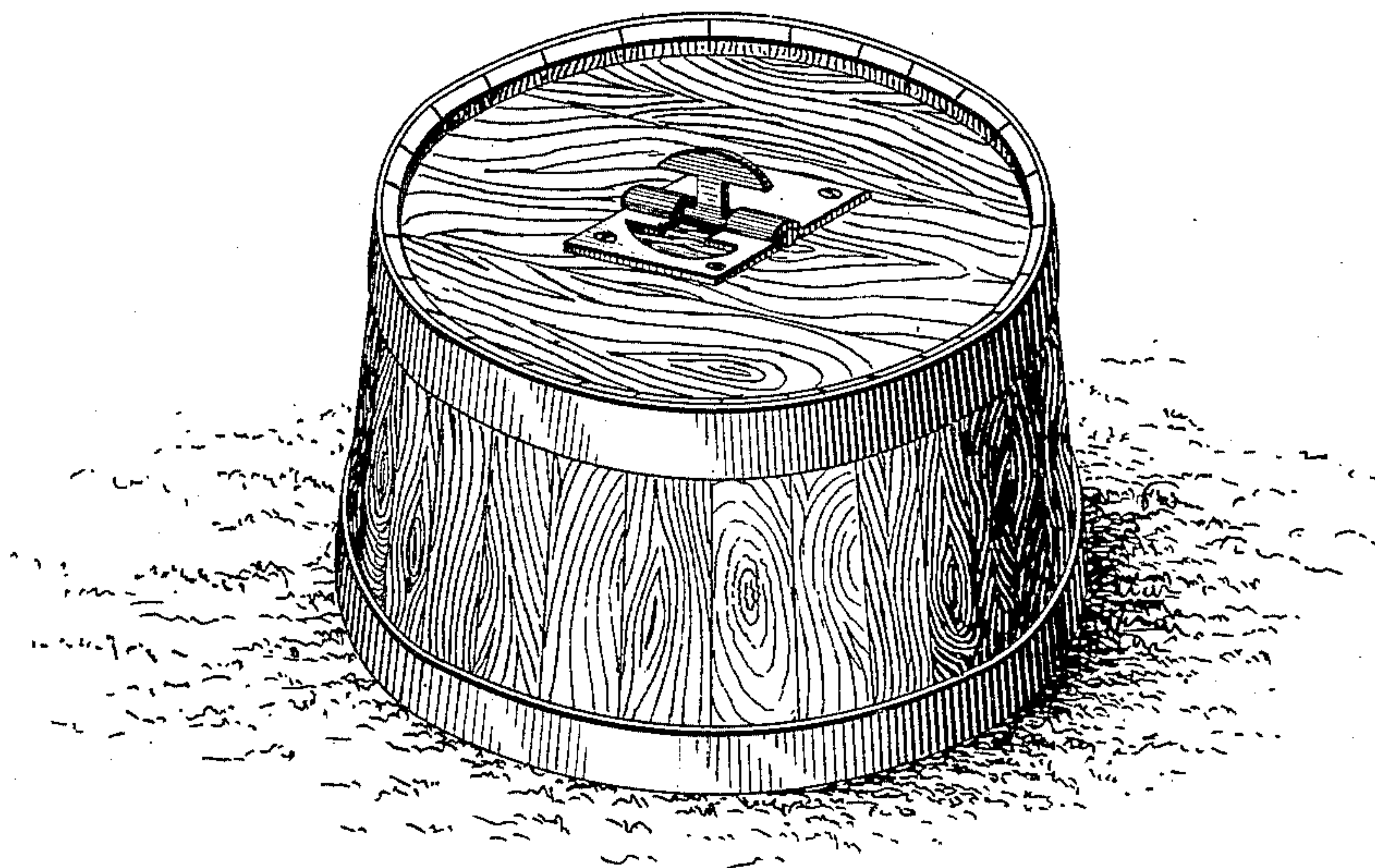


Fig. 2.

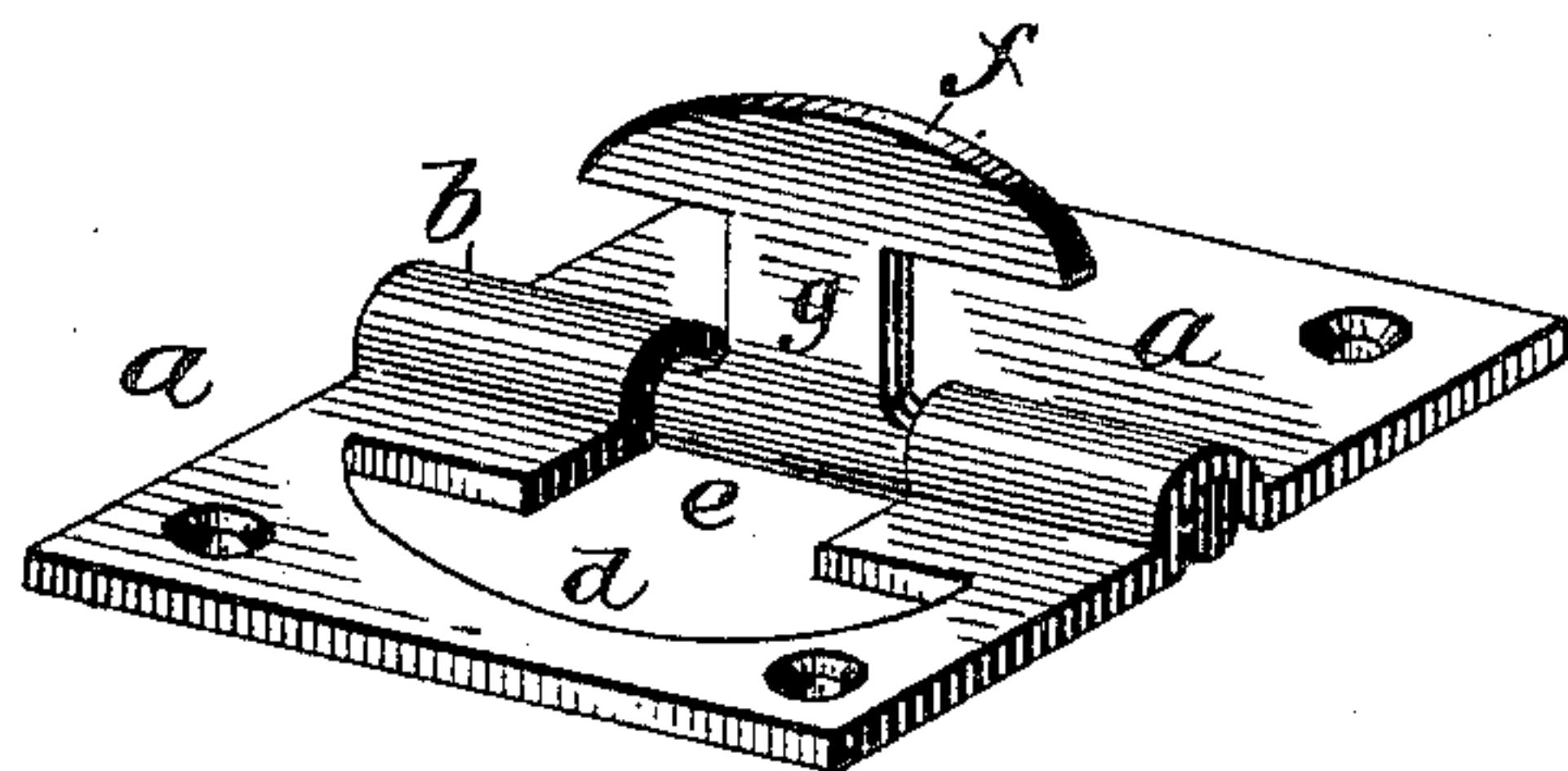
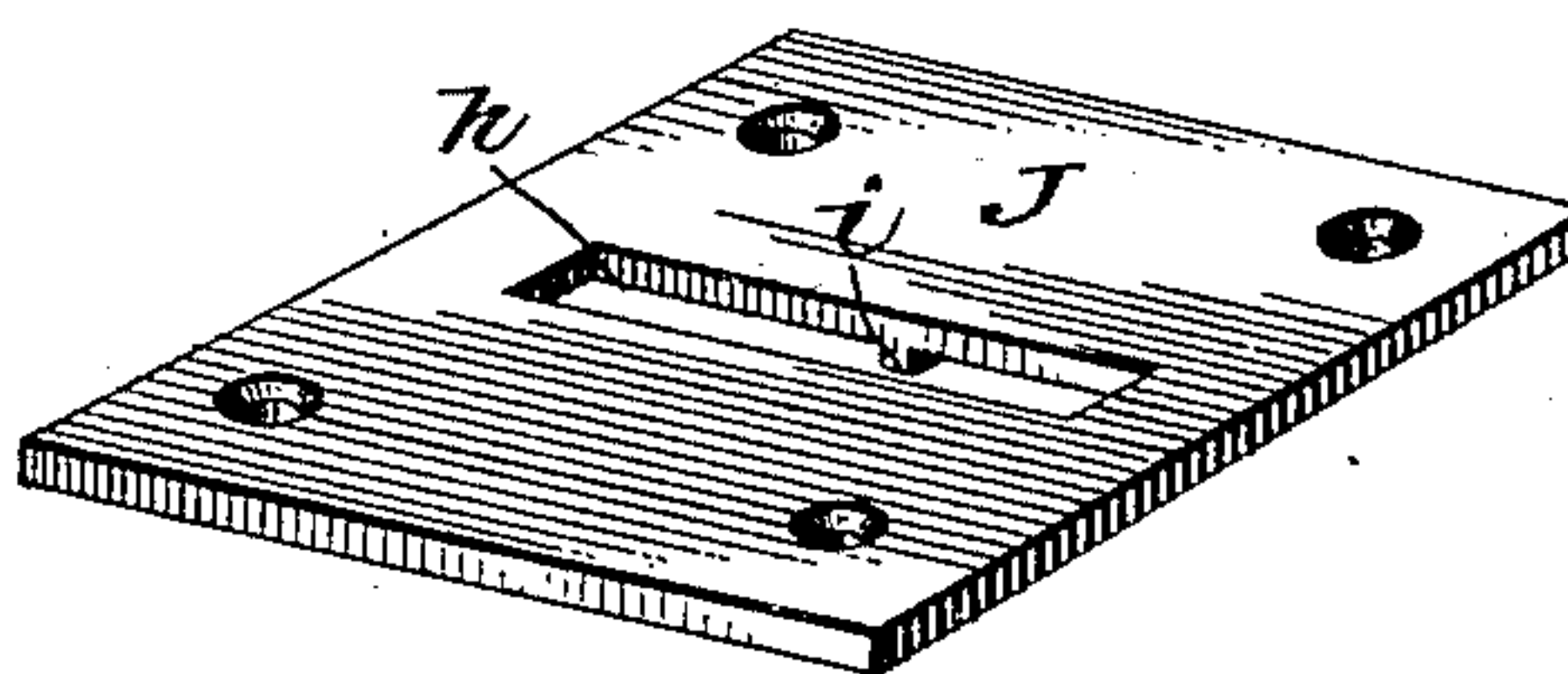


Fig. 3.



Witnesses:

M. J. Fisher
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Inventor.

Hilton E. McNally
By John L. Richardson
his attorney in fact.

UNITED STATES PATENT OFFICE.

HILTON E. McNALLY, OF EAST SAGINAW, MICHIGAN.

TUB-FASTENER.

SPECIFICATION forming part of Letters Patent No. 442,196, dated December 9, 1890.

Application filed February 12, 1890. Serial No. 340,222. (No model.)

To all whom it may concern:

Be it known that I, HILTON E. McNALLY, a citizen of the United States, residing at the city of East Saginaw, in the county of Saginaw and State of Michigan, have invented a new and useful kind of Tub-Fastener for Temporarily Fastening Tubs to Floors or Benches, of which the following is a specification.

My invention relates particularly to an improvement in fastenings for soaking-tubs used by horsemen and veterinary surgeons for soaking the legs and feet of lame and foot-sore horses; and it consists of an oscillatory stud of iron or other metal projecting from an axis, and having a cleat-shaped head. The axis turns in a depression made in a small iron plate, called a "tub-plate." A hole is cut through the tub-plate parallel to the depression for the axis, of sufficient size and shape to allow the cleat-shaped head of the stud to drop through it, and from this hole a slot of sufficient width to allow the stud to move in is cut through the tub-plate to and across the depression in which the axis turns, so that when the axis is placed in the depression in the tub-plate the stud and its head will drop through the said slot and hole and swing on the axis. The axis and stud being thus placed, the tub-plate is made fast to the bottom of a tub with screws; also, of a floor-plate similar in size to the tub-plate. Through this floor-plate a slot is cut of just sufficient length and width to receive the cleat-shaped head of the stud. Underneath the floor-plate a hole is cut in the floor of sufficient dimensions to admit of the head of the stud being turned to a position transverse to the slot after it has been passed through the same. The floor-plate is fastened to the floor with screws. Two studs project downward from the floor-plate, one on either side of its slot, to stop the head of the stud when directly across the slot.

The mechanism by which I attain the object set forth is shown in the accompanying drawings, in which—

Figure 1 is a view of a soaking-tub with the stud attached thereto by means of the tub-plate. Fig. 2 is a view of a detached tub-plate with the stud and its axis in position therein. Fig. 3 is a perspective view of the floor-plate.

a represents the tub-plate; *b*, the depres-

sion for the axis of the stud; *c*, the axis from which the stud projects; *d*, the hole in the tub-plate for the passage of the cleat-head of the stud; *e*, the slot in the tub-plate for the stud to move in; *f*, the cleat-shaped head of the stud; *g*, the stud; *h*, the slot in the floor-plate; *i*, stud on the under side of floor-plate to arrest the stud-head in its transverse position to slot; *J*, the floor-plate.

To fasten a tub to the floor the stud is brought over the slot in the floor-plate and its head is pressed down through the slot. The tub is then turned half-way around, when the head of the stud will be across the slot, and the tub will thus be held fast against the floor, and will be secure against being upset or shoved about the floor by a restive or timid animal under treatment, such an animal being liable to step on the sides of the tub, which, if unfastened, would tip up and strike its legs.

The advantage of a stud that can be turned on an axis is that when the tub is removed from the floor-plate and set upon the floor elsewhere, the stud will turn back into the cut in the tub-plate, which position prevents its being broken or bent, and will allow the tub to set flat down upon the floor.

I do not wish to be understood as claiming the invention of the stud with a head adapted to be turned into a slotted plate as a device for connecting and holding two objects together; but I am not aware that a stud for that purpose has ever before my invention thereof been constructed with an axis which admits of its being turned to one side out of its perpendicular position.

What I claim as my invention, and desire to secure by Letters Patent, is—

The oscillating stud *g*, having a cleat-shaped head *f*, adapted to pass through the slot in the floor-plate *J* and engage with the floor-plate *J* when turned therein, and having an axis *c*, adapted to be held in and to turn in the depression *b* in the tub-plate *a* when the tub-plate is fastened to the bottom of a tub, in combination with the tub-plate *a* and the floor-plate *J*.

HILTON E. McNALLY.

Witnesses:

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