(Model.)

M. ST. GERMAN.

STABLE FLOOR.

No. 357,875. Patented Feb. 15. 1887.

Fig. 1.

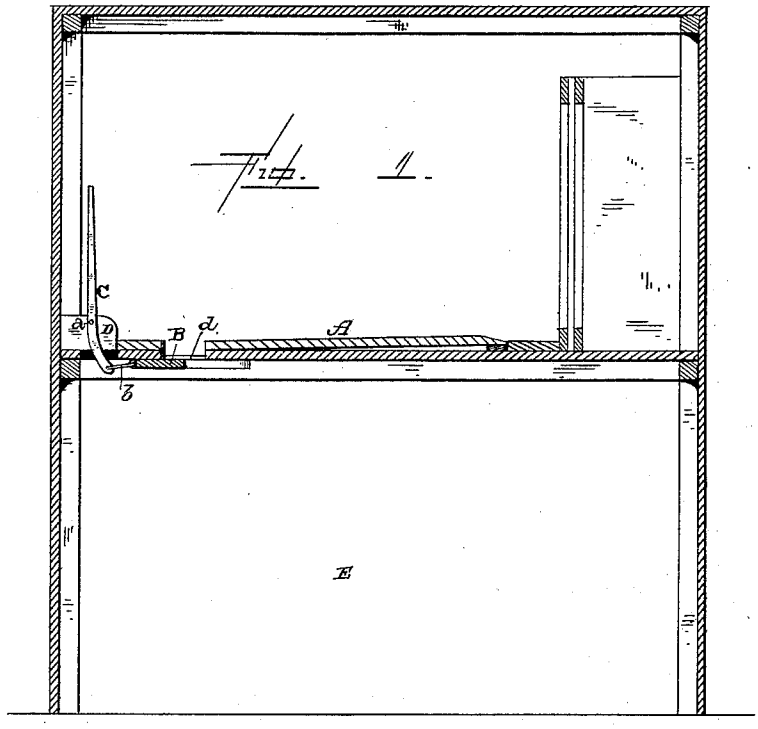
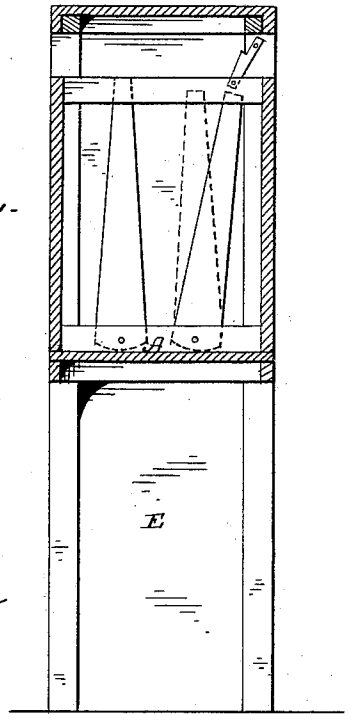


Fig. 2.



Witnesses.
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per
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UNITED STATES PATENT OFFICE.

MARSHALL ST. GERMAN, OF FAIRFIELD, VERMONT.

STABLE-FLOOR.

SPECIFICATION forming part of Letters Patent No. 357,875, dated February 15, 1887.

Application filed November 18, 1886. Serial No. 219,292. (Model.)

To all whom it may concern:

Be it known that I, MARSHALL ST. GERMAN, a citizen of the United States, residing at Fairfield, in the county of Franklin and State of Vermont, have invented certain new and useful Improvements in Stable-Floors, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to improvements in stable-floors; and the objects of my improvements are, first, to provide a simple and convenient arrangement by which the droppings of the animals may be readily conveyed to the cellar or vault below, without the necessity of shoveling the same, by sliding back a portion of the stable-floor immediately in the rear of the stall by means of a handle or lever pivoted thereto, and, second, to afford opportunity for the ready escape of the urine or liquid portion of the manure by the narrow opening allowed between the slide and the floor of the stall when the slide is closed.

In the drawings, in which similar letters indicate like parts, Figures 1 and 2 are vertical sections taken at right angles to each other through a stall embodying my invention.

A represents the floor of a stall. In the illustration one designed for cattle is selected. It is, however, apparent that my invention is adapted as well to stalls for horses. The inner or forward end of the floor A is somewhat higher, as is usual, than the rear or outer end, to better carry off the urine and prevent the floor or bedding from retaining dampness. Immediately at the rear or outer end of the floor A of the stall is a slide, B, made of wood or metal. Its length is preferably that of the width of the stall, and it is designed to be moved back and forth by means of the pivoted handle or lever C upon corresponding recessed ways in the floor-joists, or on suitable supports attached thereto. The lever C is pivoted at *a* to a suitable supporting bracket or casting, D, its lower extremity being made to extend through an elongated slot in the stable-floor, where it has a pivoted or hinged connection with the slide B by means of the rods *b b*, so that as its upper end is moved forward and back it shall correspondingly open or close the slide, to which it is thus loosely attached. When the slide is closed, only sufficient space between it and the under surface of the stall-floor A is allowed for the ready escape of the urine or liquid portion of the manure into the cellar E below. By opening the slide and thus carrying it back beneath the stable-floor all deposit upon it is pushed or scraped off through the floor-opening thus made into the cellar or vault E.

To better protect the exposed edge of that part of the floor beneath which the slide B is carried, and also to assist in scraping more thoroughly the upper surface of the slide, I attach to it the metallic strap *d*. The ends of the slide may also be similarly guarded to prevent the presence of any substance which will interfere with the easy movement of the slide at any time.

By means of a hook or hasp or other suitable device the handle C can be so secured as to prevent any liability of the movement of the slide B, except when it is desired to remove at once any deposit upon it into the cellar or vault E.

By this simple and effective arrangement all the labor required to clean the stall or stable-floor is that of collecting what little may gather outside of the slides upon them, when by a single movement of the handle C the entire deposit is at once made to fall into the receptacle below, designed to receive it, and a reverse movement of the handle restores the slide thus cleaned to place.

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

In a stall, the combination, with the floor-joists having recesses and the floor having an opening therein, as shown, of a slide, B, inside of the recesses below the opening, the rods *b*, connected to the slide, the bracket D, and lever C, pivoted to said bracket, and the rods *b*, by means of which the slide is moved back and forth under the opening, substantially as described, and for the purpose set forth.

In testimony whereof I do affix my signature in presence of two witnesses.

MARSHALL ST. GERMAN.

Witnesses:

W. E. WELLER,

JOS. D. ALLEN.