(No Model.)

F. H. COLONY.

ART OF SETTING SPINDLE STEPS.

No. 332,328. Patented Dec. 15, 1885.

Fig. 1.

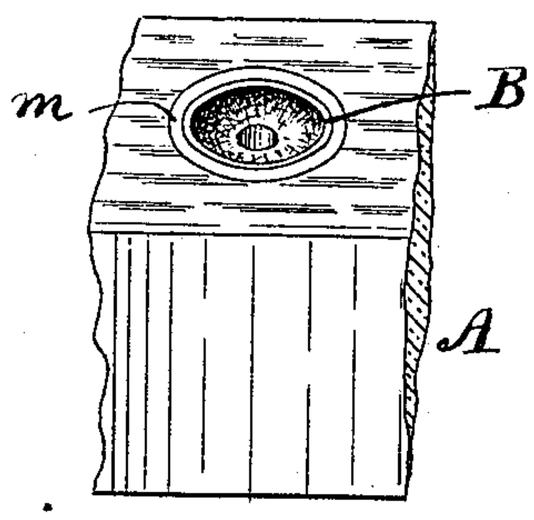
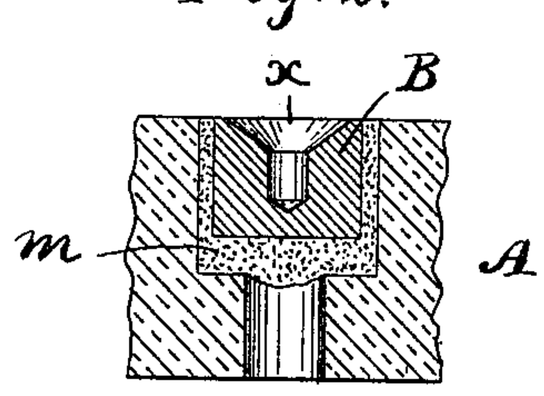


Fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE

FRANK H. COLONY, OF WILTON, NEW HAMPSHIRE.

ART OF SETTING SPINDLE-STEPS.

SPECIFICATION forming part of Letters Patent No. 332,328, dated December 15, 1885.

Application filed January 31, 1885. Serial No. 154,521. (No model.)

To all whom it may concern:

Be it known that I, FRANK H. COLONY, of Wilton, in the county of Hillsborough, State of New Hampshire, have invented a certain new and useful Improvement in the Art of Setting Spindle-Steps, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an isometric perspective showing the step inserted in the rail, a portion of which is represented as broken off; and Fig. 2, a vertical longitudinal section of the same.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

It is well known to all practical spinners that when the spindle-steps of spinning-frames become loose in the rail it is sometimes very difficult to secure them properly, or in such a manner that the central axial line of the spindle and that of the stop will coincide. My invention is designed to obviate this difficulty, and to that end I make use of means which will be readily understood by all conversant with such matters from the following explanation, its extreme simplicity rendering an elaborate description unnecessary.

In the drawings, A represents the rail, and B the step, which is provided with a countersunk hole, *x*, to receive the lower end of the spindle and lubricating-oil in the usual manner. When the step, by the vibratory action of the spindle or jarring movements of the rail, wears away the rail around it and becomes loose in its seat, it is removed and the hole in which it stood enlarged by boring or reaming it out until it is considerably greater in diameter than the step. A paste is then made by mixing ordinary plaster-of-paris, *m*, with water, and the hole thus formed is filled with the paste, after which the step is forced into the hole and embedded in the plaster, which soon "sets" or hardens around it, thereby securing it firmly in position in a manner which will be readily obvious without a more explicit description. After the step has been embedded in the plaster, as described, and before the plaster hardens, the step is "centered" by inserting the lower end of the spindle therein and revolving it until the plaster becomes set, thus adjusting the step perfectly to the spindle, so that when the plaster sets it will be held firmly in a proper position for use.

It will be obvious that my invention is well adapted for setting the steps in new rails, and I do not therefore confine myself to its employment for setting steps in rails which have become worn, as described.

Having thus explained my invention, what I claim is—

The method of setting spindle-steps, which consists in forming a hole or socket in the rail larger than the step to be set, then filling or partially filling said hole with a paste of plaster-of-paris, then embedding the step in said paste, then inserting the spindle in said step before the paste becomes set, and finally rotating said spindle in said step until said paste becomes hard or set, substantially as described.

FRANK H. COLONY.

Witnesses:
MOSES CLARK,
ALFRED E. JAQUES.