D. Eynon,

Making Railroad Chairs,

No. 69,786. Patented Oct. 15, 1867.

Fig. 1.

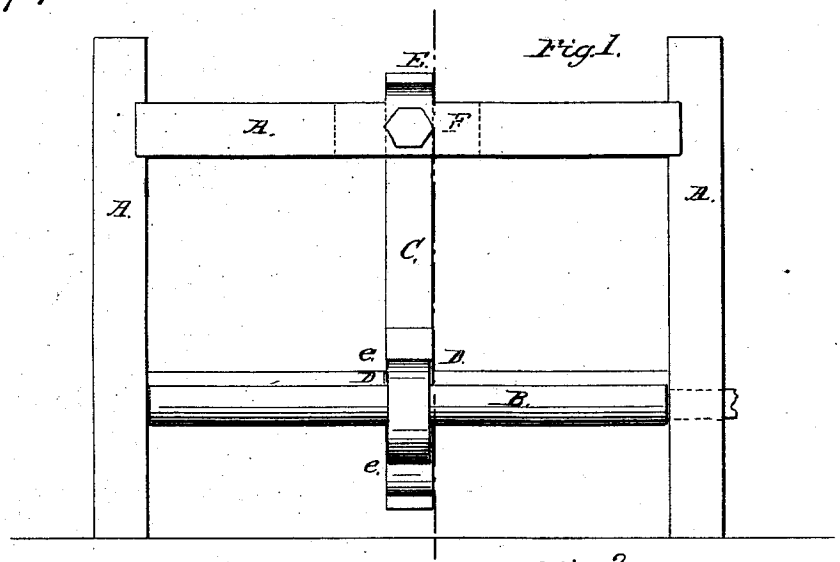
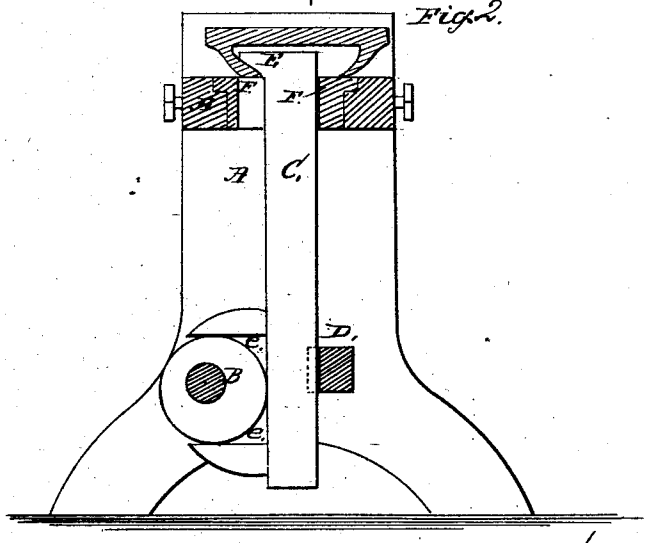


Fig. 2.



Witnesses.

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DAVID EYNON, OF RICHMOND, VIRGINIA.

Letters Patent No. 69,786, *dated October* 15, 1867.

IMPROVED METHOD OF SLOTTING THE LIPS OF RAILROAD CHAIRS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, DAVID EYNON, of Richmond, in the county of Henrico, and State of Virginia, have invented a new and useful Method of Slotting Railroad Chairs, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, which make part of this specification, and in which—

Figure 1 represents a front view of so much of my improved machine as is necessary to illustrate my invention, and

Figure 2 a vertical transverse section through the same, at the line *x x* of fig. 1.

In slotting railroad chairs previous to the date of my invention, two methods have been employed. In one the slot was cut by successive strokes of a slotting chisel from the outer side of the chair, inwards; while in the other, a mandrel, having holes corresponding with the slots to be cut, was placed inside the chair, and the slots punched from the outside, inward. Both of these methods are objectionable, as by them a burr is left inside the chair, which has to be removed by a chisel before the rail can be inserted.

It is the object of my invention to obviate this objection, and to this end my improvement consists in a novel method of slotting railroad chairs by cutting the slots with a hooked cutter, which works from the inside outward, and cuts the slot at a single stroke.

To carry out my invention, I mount a cam-shaft, B, or other suitable driving power, in a stout frame, A, and rotate it in a suitable manner. The cam imparts a vertical reciprocating movement to a pitman, C, controlled by proper guides D, and having a hooked cutter, E, attached to it by a socket-joint, *e*, and working in a slot in the die F.

In operation, the chair is placed upside down over the die, and the cutter inserted inside the lip; the cutter is then depressed by the rotation of the cam-shaft, and forced through the lip of the chair, cutting the slot from the inside outward at a single stroke, and leaving the burr, if any, on the outer side.

The simplicity of this machine, and the rapidity with which it can be operated, render it of great utility.

I have shown and described one cutter only, but in practice usually employ two, as that is the number of slots usually cut in each lip. It is, however, obvious that several cutters may be combined in one frame. It is also obvious that the mode of driving the cutter might be modified in various ways without departing from the spirit of my invention.

Having thus shown one practical way of carrying out my invention, what I claim, is—

The method herein described of slotting railroad chairs.

I also claim the hooked cutter, constructed as described.

DAVID EYNON.

Witnesses:

J. E. TANNER,

E. B. COOKE.