

(No Model.)

G. R. JOUGHINS.
LOCOMOTIVE PILOT.

No. 579,346.

Patented Mar. 23, 1897.

Fig. 1. A

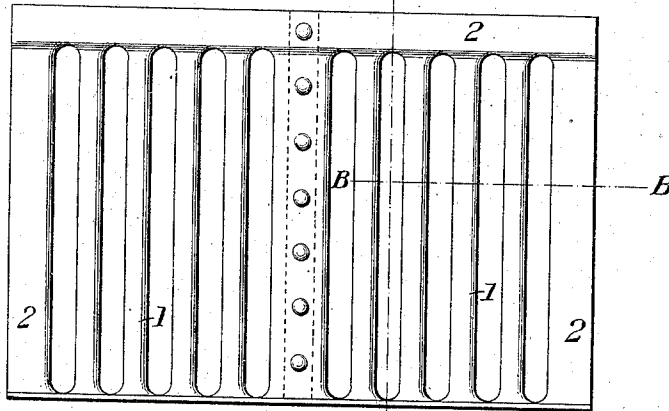


Fig. 2. A

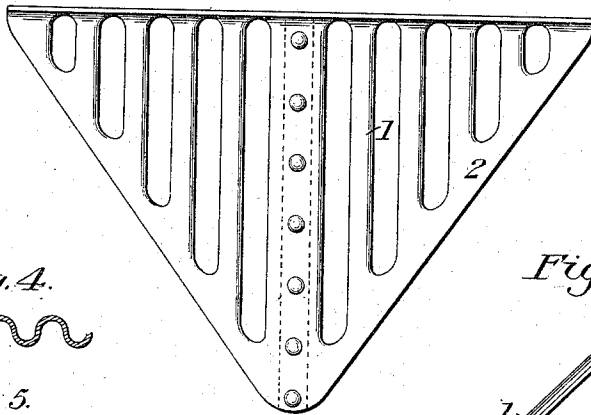


Fig. 4.



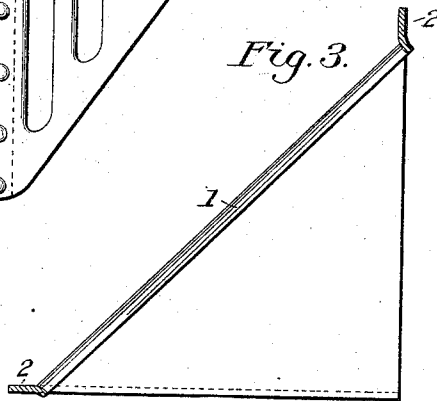
Fig. 5.



Fig. 6.



Fig. 3.



Witnesses.

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GEORGE ROBERT JOUGHINS, OF BERKLEY, VIRGINIA.

LOCOMOTIVE-PILOT.

SPECIFICATION forming part of Letters Patent No. 579,346, dated March 23, 1897.

Application filed December 5, 1896. Serial No. 614,606. (No model.)

To all whom it may concern:

Be it known that I, GEORGE ROBERT JOUGHINS, residing at Berkley, in the county of Norfolk, State of Virginia, have invented a new and useful Improvement in Locomotive-Pilots and Fenders for Vehicles, of which the following is a specification.

My invention relates to an improvement in pilots or fenders; and the object of my improvement is to construct a pilot which shall be lighter, cheaper, and stronger than any other pilots hitherto made.

In the accompanying drawings of the pilot, Figure 1 is an elevation; Fig. 2, a plan; Fig. 3, a sectional elevation on the line A A, and Figs. 4, 5, and 6 are proposed sections through the line B B.

I attain my object by making the pilot of a sheet or sheets of metal pressed or stamped in a form or die, so that the slats, as shown at 1, shall be formed by the plate itself integral with the outside or frame 2, and formed in such a manner as to give the requisite strength to each slat.

To obtain the requisite strength, the part of the plate which forms the slats may be pressed into various shapes, as shown at Figs. 4, 5, and 6. In Fig. 4 the slats are of a corrugated form. In Fig. 5 the slats are separated from each other in part, but still integral with the plate and stamped in a U or channel form. Fig. 6 is a modified form of same. It is apparent that the forms shown may be combined in the same slat and the same pilot, as may be found desirable. The sheet-metal pilot thus formed may be strengthened and braced in the usual manner if found necessary for severe service.

It is evident that plates may be pressed into other equivalent forms of slatted pilots without departing from the nature of my invention, and that the pilot may be made up of as many sheets of metal as may be found convenient, as indicated at 3.

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

1. As a new article of manufacture, a sheet-metal pilot, having the slats pressed or stamped therein, substantially as described.
 2. A pressed-steel pilot having its slats stamped therein, and integral with the outside or frame, substantially as described.
 3. A sheet-metal pilot, having its slats pressed or stamped therein, substantially as described.
 4. A pressed-steel pilot having its slats stamped therein, and integrally connected together, substantially as described.
 5. A sheet-metal pilot having its slats formed into a U-shaped section, substantially as described.
 6. A sheet-metal pilot having its slats formed into a U-shaped section, and with adjacent slats integrally connected together, substantially as described.
 7. The U-shaped metal slats for a pilot, connected to a frame at the top and bottom, substantially as described.
 8. A sheet-metal pilot having U-shaped slats pressed or stamped therein and integrally connected to the outside or frame, substantially as described.
 9. A sheet-metal pilot having slats of U-shaped section pressed or stamped therein, and integrally connected together, substantially as described.
 10. A pilot having its slats formed into a U-shaped section, substantially as described.
- In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEORGE ROBERT JOUGHINS.

Witnesses:

JOHN WHETSTONE,
ALLEN P. MITCHELL.