

United States Patent Office.

JAMES MONTGOMERY, OF SING SING, NEW YORK.

Letters Patent No. 98,290, dated December 28, 1869.

IMPROVED BAR OF HORSESHOE-BLANKS

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, JAMES MONTGOMERY, of Sing Sing, in the county of Westchester, and State of New York, have invented a new and useful improved article of manufacture, consisting of Bars of Horseshoe-Iron; and I do hereby declare that the following is a full, clear, and exact description of the same.

This invention relates to an improved method of manufacturing horseshoe-iron, according to the within-described method, and drawing the same into bars, and moulding, notching and creasing such bars, so as to form thereof a connected series of horseshoe-blanks, by passing the same between rollers.

In preparing the material for my improved iron, I use for the upper or inner side of the bar any good quality of homogenous wrought-iron, of sufficient thickness to give the required strength to the bar, and enable me to punch the holes for the reception of the nail, which secures the shoe to the foot of the animal, without breaking that portion which is outside of such holes or apertures.

For the lower or outer portion of the bar, I employ a hard quality of iron, to prevent the rapid wear of the shoe after it has been placed upon the foot of the animal.

This quality of iron I propose to produce in the following manner:

In puddling or decarbonizing the iron, I arrest the process at that stage thereof which will cause the product to be of a hard, granular character, or just before it assumes the stiff and sticky character of fully decarbonized or refined iron.

A bar made of this metal, and a bar of tough, fibrous wrought-iron are to be properly "piled" upon each

other, heated and passed through rollers for the purpose of welding them together, when, by means of other suitably-prepared rollers, it is to be drawn out into bars suitable for shoes, and creased for the reception of the heads of the nails, and notched at the points where the blanks are to be separated, by having the proper projections formed upon the rollers, or on one of them, for that purpose.

Carbonated iron of a character substantially the same as the imperfectly-puddled iron described by me, and which I prefer to use, may be obtained by other methods than that which I have set forth, and I wish to be understood as claiming the right to use iron of that character, however produced, in the practice of my method of manufacturing horseshoe-blanks.

Having thus described my improved method of constructing horseshoe-iron,

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

As a method, welding together a bar of tough, fibrous wrought-iron and a bar of hard carbonated iron, (not steel,) and converting the same into connected horseshoe-blanks, moulded, creased, and notched at points where such blanks are to be separated from one another, by passing said composed bar between rollers, substantially as described.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

JAMES MONTGOMERY.

Witnesses:

WM. HAGAN,
W. J. TURNER.