

J. WESTERMAN.

Hot Bar-Bed for Rolling-Mills.

No. 134,407.

Patented Dec. 31, 1872.

Fig 1

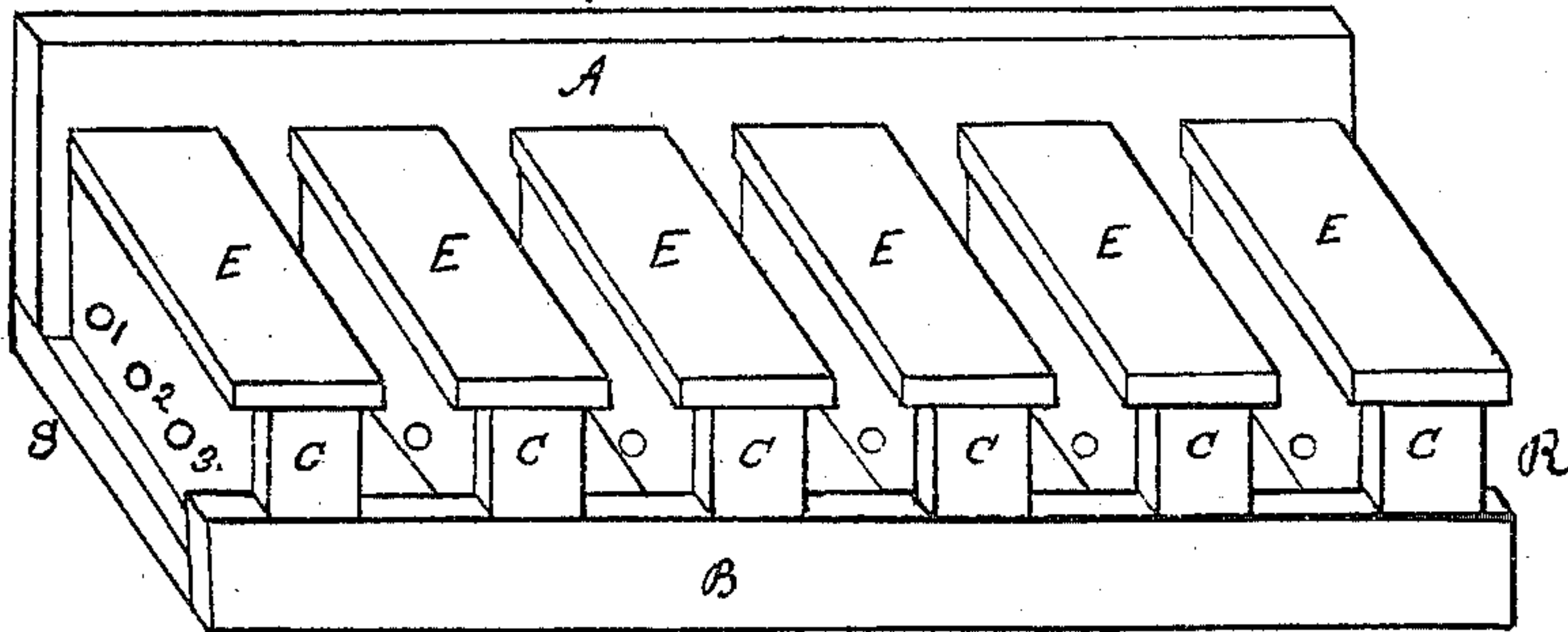
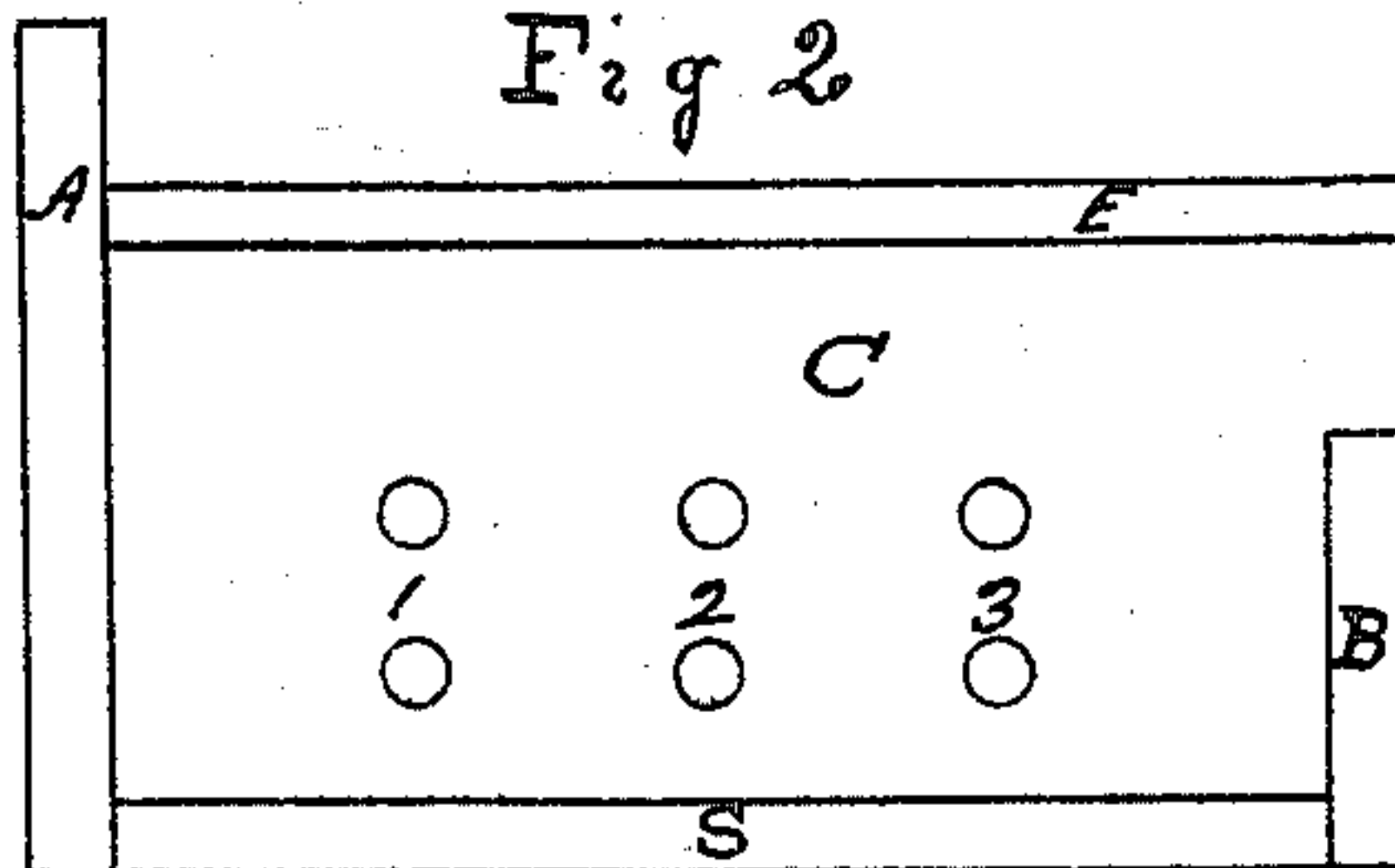


Fig 2



WITNESSES:

A B Richmond
Roe Reisinger

INVENTOR:

James Westerman

UNITED STATES PATENT OFFICE.

JAMES WESTERMAN, OF SHARON, PENNSYLVANIA.

IMPROVEMENT IN HOT-BAR BEDS FOR ROLLING-MILLS.

Specification forming part of Letters Patent No. 134,407, dated December 31, 1872.

To all whom it may concern:

Be it known that I, JAMES WESTERMAN, of Sharon, Mercer county, Pennsylvania, have invented a new and Improved Hot-Bar Iron-Bed; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawing and letters of reference marked thereon.

The object and nature of my invention are as follows, to wit: When bar-iron is rolled it is straightened and then laid on a hot-bar bed until it cools. These hot-bar beds are usually plates of iron set in a perpendicular position a few inches apart, the upper edges thereof being planed level. But as the bar-iron when laid on the bed is hot, the upper edges or sides of the plates become heated and expand, thereby throwing their edges out of level and thereby twisting and warping the hot bars. The object of my invention is to construct a bed in such a manner that it will remain level when the hot bars are laid thereon; and is constructed as follows, to wit:

Figure 1 represents a front view of my improved hot-bar iron-bed.

C C C C C C are upright plates of iron placed on a bottom plate. A is a back, also resting on the bottom plate and extending up higher than the upright plates. E E E E E E are caps on the plates C C C C C C, and may

be cast with them, if desired. The upper surfaces of the plates E E E E E E are planed and "leveled up." B is a side that may be constructed of any desired width. 1 2 3 are holes in the upright plates C C C C C C. Through these holes a stream of water is kept constantly running, which keeps the upright plates C C C C C C always cool.

The depth of water may be regulated by the height of the side B and the holes 1 2 3, the water being let in at S and running out at R, or the reverse, as may be desired.

Fig. 2 is an end view of the bed, showing two series of holes for the admission of water. If desired the lower holes may be closed, and the water will be raised to the upper series.

It will be seen that by this device the bar-bed E E E E E E, once constructed on a level, will remain so as long as the water is kept in circulation.

What I claim as my invention is as follows, to wit:

A bar-bed, constructed substantially as described, having a series of holes or passages for the circulation of a stream of water, for the purpose specified.

JAMES WESTERMAN.

Witnesses:

A. B. RICHMOND,
J. N. McCLOSKEY.