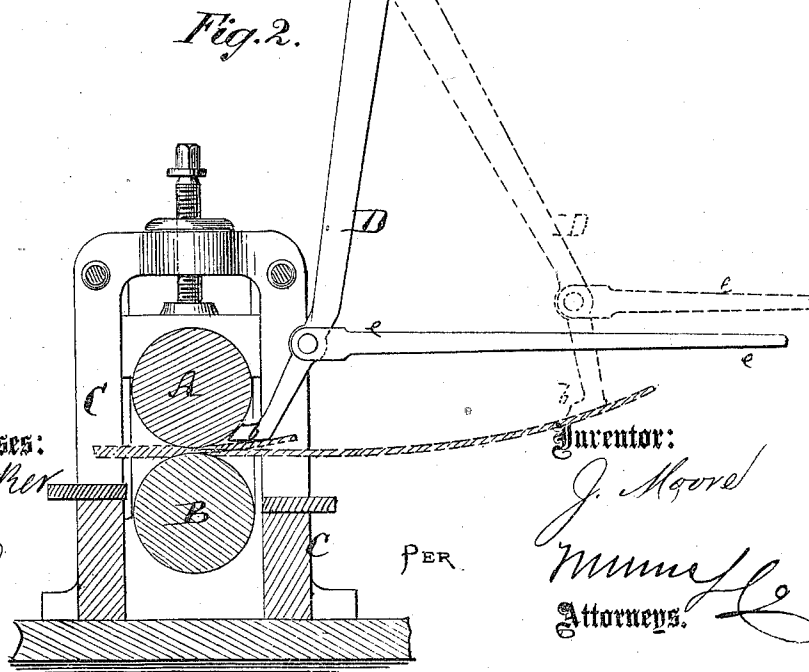
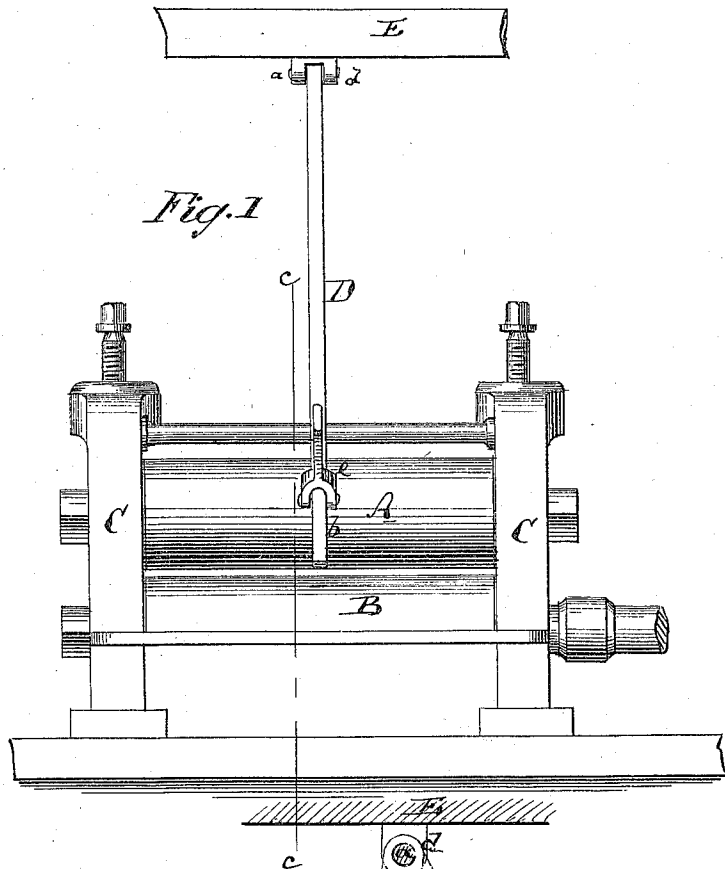


J. MOORE.

Plate and Sheet Guide for Rolling-Mills.

No. 133,591.

Patented Dec. 3, 1872.



Witnesses:

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UNITED STATES PATENT OFFICE.

JAMES MOORE, OF BELLEVILLE, NEW JERSEY.

IMPROVEMENT IN PLATE AND SHEET GUIDES FOR ROLLING-MILLS.

Specification forming part of Letters Patent No. 133,591, dated December 3, 1872.

To all whom it may concern:

Be it known that I, JAMES MOORE, of Belleville, in the county of Essex and State of New Jersey, have invented a new and Improved Plate and Sheet Guide for Rolling-Mills, of which the following is a specification:

Figure 1 is a rear elevation of a rolling-mill provided with my improved sheet-guide. Fig. 2 is a vertical transverse section of the same taken on the plane of the line *c c*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of this invention is to attach to rolling-mills a device whereby the curling of the plates or sheets when they emerge from between the rollers, will be prevented.

At present it frequently and almost invariably happens that the plates or sheets curl up as they emerge from between the rollers, which makes it more difficult to subsequently handle them and often threatens the destruction of the entire machinery or injury thereto. In order to counteract this tendency of the plates to curl I have applied a pendent lever to the machine, with a foot at its lower end that reaches to the plate and holds its end down, following the motion of the plate as the same passes out of the rolling-mill.

In the drawing, A B are the two rollers of a suitable rolling-mill, hung in suitable manner in a frame-work, C, and operated in any desired manner best adapted to the purpose of rolling out or flattening plates or sheets. D is a rod or bar suspended from the ceiling of the room in which the mill is put up, or from an upper beam, E, of a suitable upper

frame. The upper end of the rod or bar D is pivoted by a pin, *a*, to an ear or lug, ears or lugs *d* projecting from said ceiling or beam E. A foot or enlargement, *b*, is, by preference, formed at the lower end of the lever or bar D, and is in such a position with respect to the rollers A B that it will just or nearly reach to and rest upon the surface of the sheet or plate as the same emerges from between said rollers. As the sheet or plate continues to pass out of the mill the foot *b*, resting upon it, follows it, as indicated by dotted lines in Fig. 2. By this the lever or pendent bar D prevents the sheet or plate from curling up, and from thereby giving rise to the inconveniences above alluded to. When the plate or sheet has entirely passed out of the mill the bar or lever D may be held back by a person having hold of an arm, *e*, which is joined to the bar D, as shown, until such plate has been removed or replaced for rerolling at the front of the machine, whereupon the bar is allowed to resume its position near to the rollers to hold down the end of the next plate or sheet emerging from between the rollers.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The pendent bar or lever D, applied in conjunction with a rolling-mill, substantially as and for the purpose herein shown and described.

JAMES MOORE.

Witnesses:

C. SEDGWICK,
T. B. MOSHER.