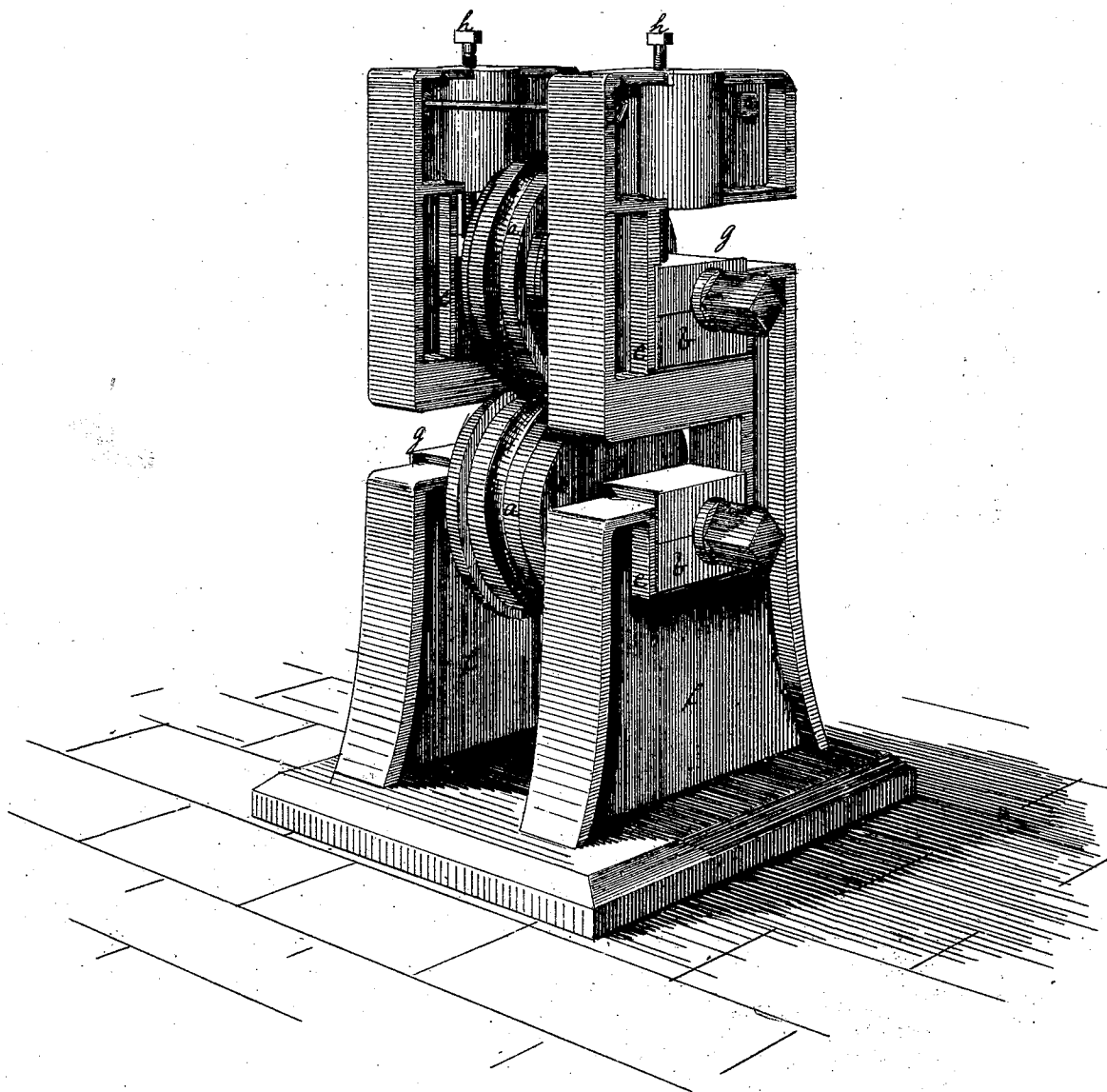


JOHN RIGBY.

Improvement in Housings for Rolls.

No. 114,858.

Patented May 16, 1871.



Witnesses {
Thos B. Kerr
R. C. Manshall

Inventor: John Rigby
by Bakerwell & Christy
his Attys

United States Patent Office.

JOHN RIGBY, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR. BY MESNE ASSIGNMENT, TO HIMSELF, JOSEPH DAVIS, AND A. FILSON DALZELL.

Letters Patent No. 114,858, dated May 16, 1871.

IMPROVEMENT IN HOUSINGS FOR ROLLS

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, JOHN RIGBY, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Housings for Rolls; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing forming part of this specification, which is a perspective view of my improved housing for rolls.

My invention consists in the construction of a slotted and boxed housing, whereby a separate and distinct bearing and adjustment in the housing is secured to each roll.

To enable others skilled in the art to make and use my invention, I will describe its construction.

The rolls *a a*, of any desired form, are supported by the bearings *b b* in square or other polygonal-shaped boxes *c* in the housings *f*. The position and number of these boxes depend on the position and number of rolls in the housing.

In the old way of housing rolls there was but one box, and the bearings of the upper roll rested upon those of the lower roll. It was impossible to take out the lower roll for repairs, &c., without unshipping the upper one, which involved a loss of time and labor.

This difficulty I overcome by having separate boxes for each roll, which boxes are entered by a slot, *g*, which extends from the outer edge of the housing into the box.

In order not to weaken one side of the housing *f* I make the slots to alternate from side to side, as in the drawing, where one slot, *g*, is in the front side of the housing and the other in the back. Through these slots the journals of the rolls are slipped into the boxes, wherein they can be adjusted, and from whence they can be taken without necessarily disturbing the other roll in any way, except so far as it may be necessary to raise it so as to give the lower roll clearance.

The rolls can be adjusted by means of liners in the ordinary way.

The upper roll is held down by means of screws *h h* working down upon the bearings through the top of the housings *f f*.

By thus having separate boxes and bearings for each roll I am able to adjust the rolls with great accuracy, and am thereby able to roll iron with a smaller fin than can be done in rolls adjusted in the old way.

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

The housings *f*, slotted and boxed, as at *g g*, for the separate and independent adjustment and seating therein of the roller, substantially as described.

In testimony whereof I, the said JOHN RIGBY, have hereunto set my hand.

JOHN RIGBY.

Witnesses:

A. S. NICHOLSON,
THOS. B. KERR.