

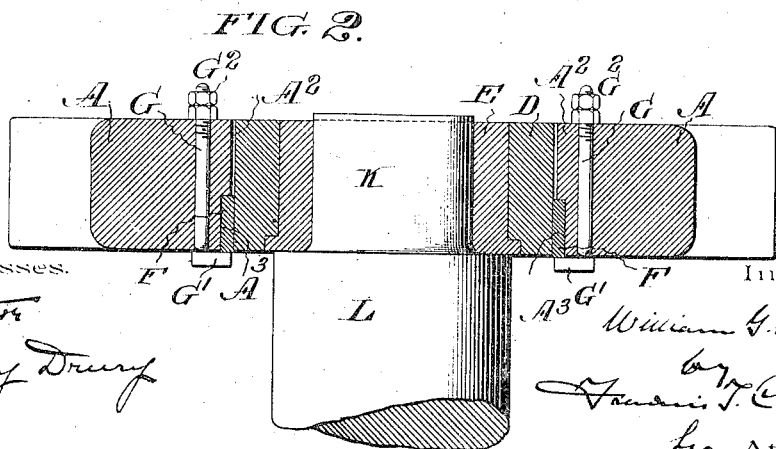
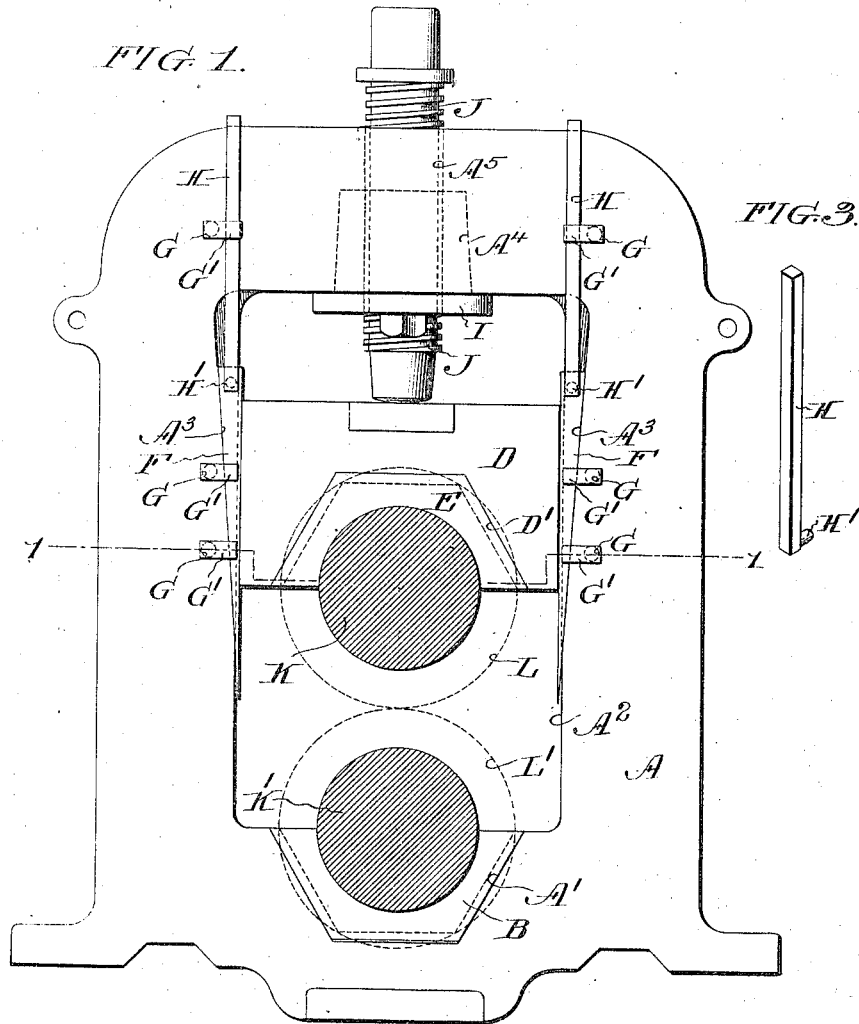
No 646,934.

Patented Apr. 3, 1900.

W. G. WHITELEY.
ROLL HOUSING AND BEARING.

(Application filed Oct. 20, 1897.)

(No Model.)



Witnesses.

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ROLL HOUSING AND BEARING.

SPECIFICATION forming part of Letters Patent No. 646,934, dated April 3, 1900.

Application filed October 20, 1897. Serial No. 655,834. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM G. WHITELEY, a citizen of the United States of America, residing at Wilmington, in the county of New Castle, in the State of Delaware, have invented a certain new and useful Improvement in Roll Housings and Bearings, of which the following is a true and exact description, reference being had to the accompanying drawings, which form a part thereof.

My invention relates to roll housings and bearings and is designed with special reference to rolls used in the cold-rolling of sheet-iron, my object being to provide means at once simple, effective, and strong for adjusting the upper roll to proper operative relation with the lower roll.

The nature of my improvements will be best understood as described in connection with the drawings, in which they are illustrated, and in which—

Figure 1 is an end view of a roll-housing provided with my improvements; Fig. 2, a cross-section on the line 1 1 of Fig. 1, and Fig. 3 a perspective view of a detail of construction.

A indicates the roll-housing, which is provided with a recess A' to receive the bearing B for the lower roll. The sides of the housing extend, as shown at A², vertically upward over a portion of the distance and are then flared outward, as shown at A³, in the portions between which the adjustable bearing-plate D is situated, said bearing-plate D carrying the bearing E for the upper roll.

L and L' indicate, respectively, the upper and lower rolls, and K and K' the bearings at the end of the said rolls.

F F indicate wedges fitting between the sides of the housing and the bearing-plate D and serving by a proper relative adjustment to hold the bearing-plate D in correct lateral position. When for any reason it is desired to adjust the said bearing-plate laterally, the wedge toward which the adjustment is to be made is raised, while the wedge on the other side is depressed, the result being of course to clamp and hold the plate D in proper lateral position. The plate D is not only later-

ally but vertically adjustable and is pressed downward in the design shown by the threaded adjusting-screw J, working in an internally-threaded thimble I, fitting into a proper cavity A⁴ in the top of the housing.

As shown, the wedges F F are clamped in proper position by means of the clamping-bolts G, having heads G', adapted to come in contact with the sides of the wedges, and nuts screwing down upon their other ends. As a convenient means of raising and lowering the wedges I have shown a bar H, having a laterally-extending pin H', which engages in a hole at the top of each wedge, while the bars extend above the top of the housing, clamping-bolts G G' serving also to hold these bars H in position, as indicated in Fig. 1.

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

1. In combination with a roll-housing, as A, having bearings, as B, for the lower roll, and outwardly-flared sides, as A³, a vertically and laterally moving bearing-plate as D having straight parallel side edges, for the upper roll, means for pressing said bearing-plate downward to secure the necessary pressure between the rolls and adjustable wedges situated between the side edges of the bearing-plate D and the flared sides of the housing whereby the said bearing-plate is adjustable laterally while retaining freedom to move vertically between the wedges.

2. In combination with a roll-housing as A, having bearings, as B, for the lower roll, a vertically and laterally moving bearing-plate as D for the upper roll, means for pressing said bearing-plate downward to secure the necessary pressure between the rolls, adjustable wedges situated between the bearing-plate and the sides of the housing whereby the said bearing-plate is adjustable laterally, and clamps as G G' for securing the wedges in any desired position.

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Witnesses:

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