Nov. 18, 1924.

## J. W. FLEISHOUR

BAR MILL GUIDE

Filed Nov. 23, 1922

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Inventor

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JOHN W. FLEISHOUR, OF CANTON, OHIO.

BAR-MILL GUIDE.

Application filed November 23, 1922. Serial No. 602,773.

To all whom it may concern: cut-out portion 18, having the shoulder 19 Be it known that I, JOHN W. FLEISHOUR, which engages the cross bar 20, mounted a citizen of the United States, residing at between the side guides 7. The inner end 60 Canton, in the county of Stark and State of the upper guide is tapered as at 21 and 5 of Ohio, have invented a new and useful curved to fit beneath the upper roll 2.

a specification.

ing mills and more especially to guides for through a slot 24 in the cross bar 25, se-10 bar mills, and has for its objects to pro- cured between the housings 1, a pin 26 bevide a guide for conducting the metal from ing passed through one of the perforations a pair of rolls in such a manner as to ob- in the link to place the desired amount of to the mill or injury to the workmen, and parts in the position best shown in Fig. 2. 15 to generally simplify the construction of A roller 27 is journaled between the side devices of this character. guides 7 at a point beyond the outer end

manner illustrated in the accompanying lower guide in order to receive the bar as 20 drawings, in which—

mill provided with the improved guide em- the lower guide, in order to prevent the

25 through the same.

corresponding parts throughout the draw- guide and then cause considerable damage ings.

Bar-Mill Guide, of which the following is The upper guide is supported by means of the spring 22 connected to the lower end This invention relates to guides for roll- of the perforate link 23, which is suspended 65 viate the liability of breakage or damage tension upon the spring 2, and holding the 70 The above and other objects may be at- of the lower guide 13, the top of the roller tained by constructing the device in the being spaced slightly above the top of the 75 it passes from the lower guide, raising the Figure 1 is an end elevation of a bar bar from engagement with the outer end of bodying the invention; and edge of the guide from scraping the under 80 Fig. 2, a longitudinal sectional view surface of the bar, as it has been found that particles of metal scraped from the bar Similar numerals of reference indicate will accumulate upon the end of the lower to the mill or injury to the workmen when 85 A bar mill is shown conventionally and the end of the next bar contacts with the same.

<sup>30</sup> includes the usual housings 1 and upper and lower rolls 2 and 3 respectively, which may be of any usual and well known construction of the combination with a rolling mill al grooved lugs 5 in the housings and dif- bar, of a pair of side guides mounted upon 35 fers from the usual rest bar in having the inclined inner surface 6.

greater width than the rest bar 4, the for- suspended from the upper portion of the ward edge of each slot being inclined as mill housings.

I claim:—

tion. The rest bar 4 is mounted in the usu- having upper and lower rolls and a rest 90 the rest bar and extending between the rolls, a lower guide resting upon the rest bar and The side guides 7 are provided in their the lower roll and an upper guide extendunder sides with the slots or notches 8 of ing beneath the upper roll and resiliently 95

at 9, a wedge 10 being driven downward 2. The combination with a rolling mill through each side guide, between the outer having upper and lower rolls and a rest face 11 of the rest bar and the adjacent, bar having a downwardly and forwardly 100 straight face 12 of the notch 8. inclined rear face, of a pair of side guides 45. The side guides may be adjusted hori- having tapered notches in their lower edges zontally upon the rest bar, after which the for engagement with the rest bar, a lower wedges 10 are driven tightly into place, guide resting upon the lower roll and rest holding the side guides in the adjusted po- bar, and having an inclined notch in its 105 sition. The lower guide 13 is provided with forward end engaging the inclined face of the cut-out, outer end 14, having the in- the rest bar, a cross bar between the side guides, an upper guide having a notched, clined shoulder 15 which engages the inclined face 6 of the rest bar, the inner end forward end for engagement with the cross of the lower guide being tapered as at 16 bar, and tension means intermediate the 110 extremities of the upper guide for holding and curved to rest upon the lower roll 3, as the same in engagement with the upper roll illustrated in Fig. 2 of the drawing. 55 The upper guide 17 is a hanging guide and cross bar. JOHN W. FLEISHOUR. and is provided at its outer end with the