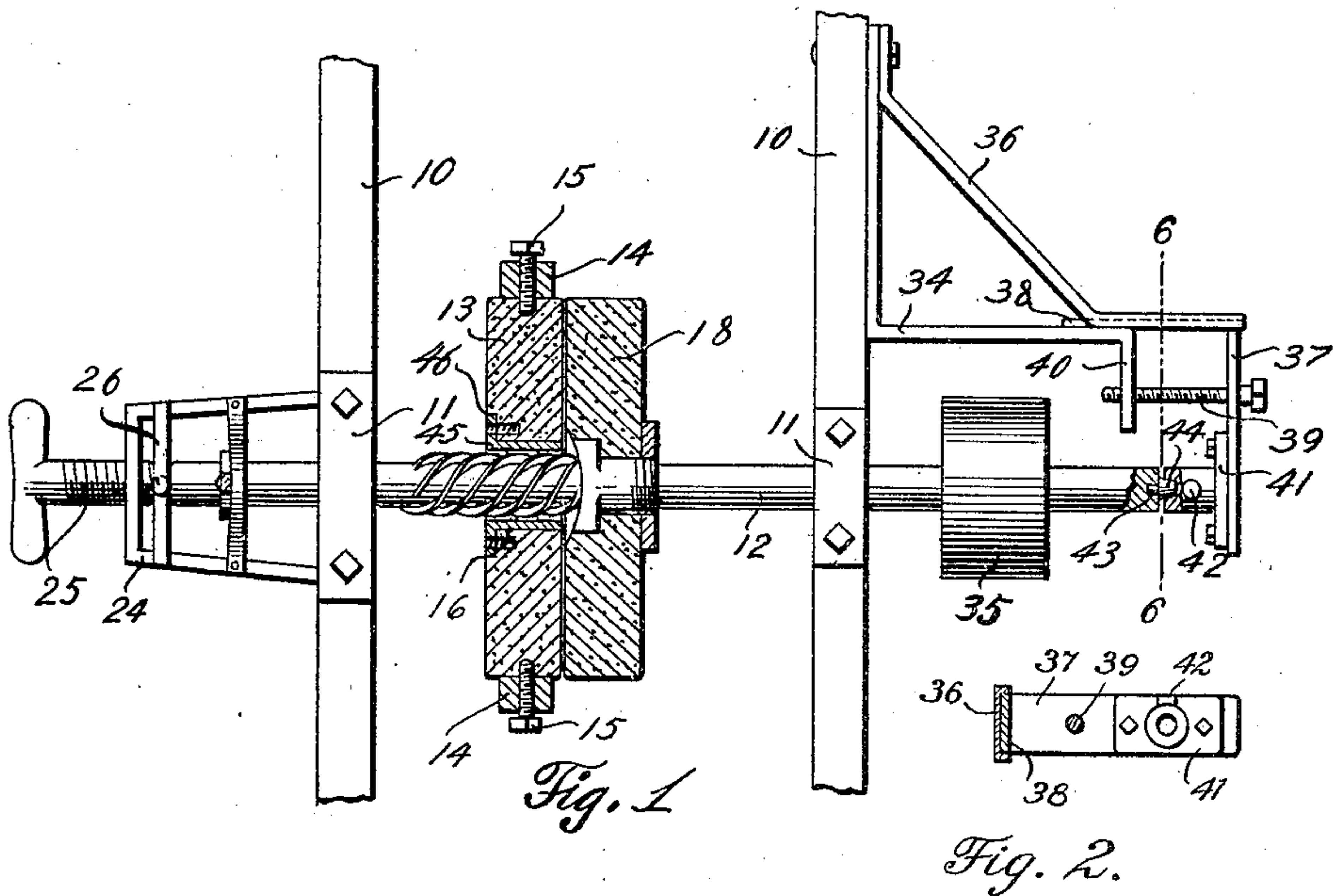


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SHAFT BEARING FOR GRINDING MILLS.  
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999,600.

Patented Aug. 1, 1911.



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# UNITED STATES PATENT OFFICE.

CHARLES SCHOCH AND DARWIN SCHOCH, OF SAYLORSBURG, PENNSYLVANIA.

SHAFT-BEARING FOR GRINDING-MILLS.

999,600.

Specification of Letters Patent.

Patented Aug. 1, 1911.

Application filed May 31, 1910. Serial No. 564,272.

*To all whom it may concern:*

Be it known that we, CHARLES SCHOCH and DARWIN SCHOCH, citizens of the United States, residing at Saylorsburg, in the county of Monroe and State of Pennsylvania, have invented certain new and useful Improvements in Shaft-Bearings for Grinding-Mills, of which the following is a specification.

10 This invention has reference to bearings for the shafts of grinding mills wherein the stones are adapted to automatically move apart when foreign matter such as nails, and the like, are carried therebetween, damage being thus prevented in the operation of the machinery.

15 In the drawings Figure 1 is a top plan view of certain parts of a grinding mill, the stones being shown in section; and Fig. 2 is a section taken on the line 6—6 of Fig. 1.

Referring to the drawings, 10 indicates the transverse bars of the supporting frame of the mill, 11 suitable bearings, and 12 the main shaft of the machine. The grinding stones 13 and 18 are mounted on the shaft 12, the stone 13 being stationary while the stone 18 is adapted to rotate with the shaft 12. The stationary stone 13 is held in position by means of the strip 14 and fastenings 15, these parts not being material to the invention. In the enlarged opening 16 of the stone 13, a bushing 45 is secured and held in place by transverse ears 46 countersunk in the stone. A yoke 24 is secured to one of the bars 10 and has the adjusting screw 25 mounted therein, the latter being adapted to operate a slide 26.

40 The present invention resides particularly in the provision of an angular bracket 34 carried by the other bar 10 of the frame and located over the driving pulley 35 of the shaft 12. A bracket 36 is arranged adjacent to the bracket 34 and secured to the adjacent bar 10 by the same fastening means as that connecting the bracket 34 thereto. The bracket 36 is provided with a groove in the under side of its horizontal portion and a

vertical spring arm or member 37 is provided with an angularly-bent portion 38 50 which operates in the groove of the bracket 36. The bent portion 38 is normally retained between the bracket 36 and the bracket 34. A screw 39 connects the spring member 37 and the vertical portion 40 of 55 the bracket 34 and provides a means for adjusting the position of the member 37 relative to the part 40. A bearing 41 is carried at the lower end of the spring member 37 and is supplied with a suitable oil cup 42. 60 A bearing pin 43 having the conical portion 44 is interposed between the parts 12 and 41. It is apparent that the spring arm 37 will yield outwardly permitting separation of the stones 13 and 18 for the purpose hereinbefore referred to. 65

Having thus described the invention, what is claimed as new is:

1. In means of the class described, the combination of supports, a shaft mounted 70 thereon, and a bearing-support for one end of said shaft comprising an angular bracket carried by one of said supports, a second bracket arranged on the angular bracket and engaging the lower portion of the latter, the first mentioned bracket having a downwardly projecting arm, a slide clamped between the lower portions of the brackets aforesaid, and having a downwardly extending arm spaced from that of the first 80 mentioned bracket, a bearing for said shaft carried by the arm of the slide, and adjustable means connecting the downwardly extending arm of the slide with the first mentioned bracket. 85

2. In means of the class described, the combination of supports, a shaft mounted thereon, one end of the shaft projecting beyond one of the supports, a pulley on said end of the shaft, an angular bracket secured 90 to the support and provided with a downwardly projecting arm at its outermost portion, a second bracket secured to the support above the angular bracket, and having its lower portion engaging the lower portion of 95 the angular bracket and formed with a



groove in its under side, a slide supported in  
said groove and arranged between said  
brackets, said slide having a downwardly  
projecting spring arm, a screw connecting  
5 the downwardly projecting arm of the an-  
gular bracket and the spring arm of the  
slide, and a bearing carried by said spring  
arm for said shaft.

In testimony whereof we affix our signa-  
tures in presence of two witnesses.

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DARWIN SCHOCH.

Witnesses:

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Washington, D. C."

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