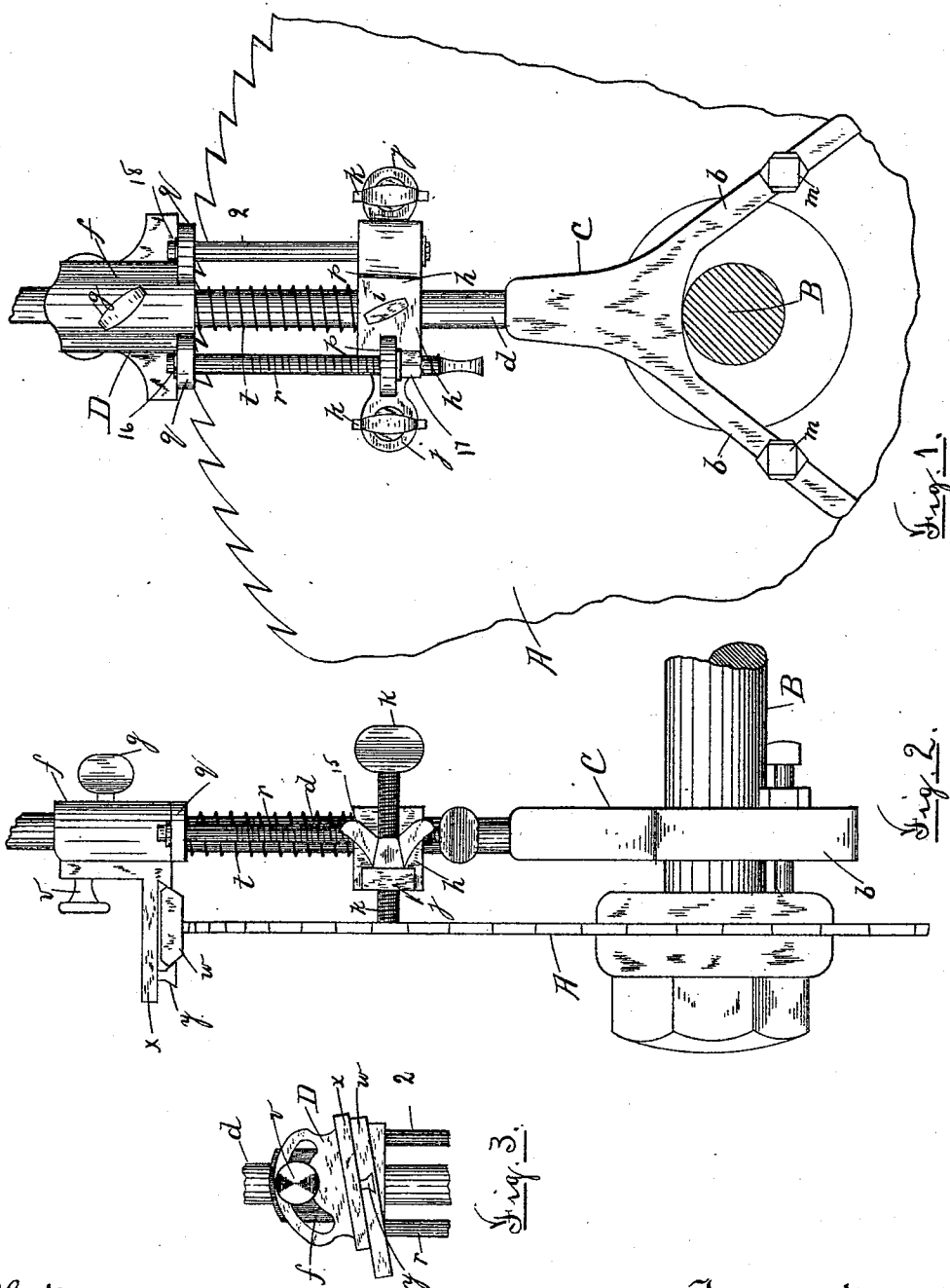


(No Model.)

W. E. JORDAN & F. A. MARIHEW.
DEVICE FOR ROUNDING UP CIRCULAR SAWS.

No. 436,059.

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UNITED STATES PATENT OFFICE.

WILLIAM E. JORDAN AND FRANK A. MARIHEW, OF ORANGE, MASSACHUSETTS.

DEVICE FOR ROUNDING UP CIRCULAR SAWS.

SPECIFICATION forming part of Letters Patent No. 436,059, dated September 9, 1890.

Application filed June 26, 1890. Serial No. 356,799. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM E. JORDAN and FRANK A. MARIHEW, both of Orange, in the county of Franklin, State of Massachusetts, have invented certain new and useful Improvements in Devices for Rounding Up Circular Saws, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an elevation showing our improved device in use; Fig. 2, an edge elevation of the same, and Fig. 3 a view illustrating certain details of construction.

Like letters and figures of reference indicate corresponding parts in the different figures of the drawings.

Our invention relates especially to a device for dressing or "rounding up" the edges of circular-saw teeth after having been sharpened; and it consists in certain novel features hereinafter fully set forth and claimed, the object being to produce a simpler, cheaper, and more effective device of this character than is now in ordinary use.

The nature and operation of the improvement will be readily understood by all conversant with such matters from the following explanation:

In the drawings, A represents the saw, and B the mandrel. The rounding-up device consists of a body portion C, which is forked, forming arms *b*, adapted to astride and rest upon the mandrel B when in use. A vertical standard *d* is mounted in the opposite end of the body C, and a sleeve or block *f* is fitted to slide on said standard and is secured in position thereon by a set-screw *g*. A block *h* is fitted to slide on the standard between the sleeve *f* and body C and is also held in position by a set-screw *i*. An ear *j* projects from each end of the block *h*, and a guide-screw *k* passes horizontally through each of said ears, said screws being adapted to engage the face of the saw and serve as guides for the device. A check-nut 15 on said screws *k* holds them in position when adjusted. A similarly-arranged screw *m* passes through each of the body-

arms *b* and are arranged to engage the face of the saw near the mandrel B, said screws serving as guides. A lug *p* projects laterally from the block *h* at either side of the set-screw *i*, and similar lugs *q* are formed on the sleeve *f* in alignment therewith. A vertically-arranged adjusting-screw *r* passes through corresponding lugs *p q* on said block and sleeve. Said screw passes freely through said lugs and has its upper end headed at 16. A nut 17 is turned onto the screw below the block *h*, whereby said block may be adjusted in relation to the sleeve. A rod *r*² passes through the opposite lugs *p q* and is headed at 18. A coiled spring *t* is disposed around the standard *d* between the sleeve *f* and block *h*. A bracket D is pivoted to swing vertically on the front of the sleeve *f* by means of the thumb-screw *v*, said bracket being provided with a curved slot 19 for said screw. A file *w* is mounted horizontally in an arm *x* on said bracket and is secured by means of a screw *y*, said file being adjustable longitudinally in said bracket.

In the use of our improvement, the gage-screws *k m* being properly adjusted, the body C is disposed on the mandrel B, with the points of said screws in engagement with the face of the saw. The sleeve *f* and block *h* are adjusted on the standard *d* so that the working-face of the file *w* is in engagement with the edges of the saw-teeth. By moving the device with its body in engagement with the mandrel as a center the file *w* reduces the edges of the teeth into an arc of the same circle. By means of the gage-screws *k m* as a portion of the file wears away the device may be adjusted in relation to the face of the saw to enable a new portion of the file-face to be used. The swinging bracket D may also be adjusted to present different portions of the file-surface for action on the saw. The screw *r* and rod *r*², connecting the block and sleeve, and said block having a bearing on the saw-face by means of the gage-screws, lateral movement or rotation of the sleeve is prevented. By turning up the nut 17 the sleeve *f* may be adjusted in relation to the block *h*, the spring *t* tending to force them apart.

Having thus explained our invention, what we claim is—

1. In a device of the character described, a body adapted to be held in engagement with the saw-mandrel and provided with a file disposed in position to engage the saw-teeth as
5 said body is rotated on said mandrel, substantially as described.
2. In a device of the character described, a forked body adapted to be held in engagement with the saw-mandrel and rotated around the
10 same as a center, in combination with a file adjustably mounted on said body, substantially as and for the purpose set forth.
3. In a device of the character described, the combination of a forked body, a standard
15 thereon, a sleeve fitted to slide on said standard, a bracket pivoted to swing vertically on said sleeve, and a file mounted in said bracket, substantially as described.
4. In a device of the character described, a
20 forked body, a standard thereon, a sleeve fitted to slide on said standard and bearing a file, a block fitted to slide on said standard, gage-screws on said block, and mechanism for adjusting said sleeve in relation to the block,
25 substantially as set forth.
5. In a device of the character described, a forked body provided with gage-screws, a standard thereon, a sleeve fitted to slide on
30 said standard, a file adjustably mounted on said sleeve, a block fitted to slide on said standard, gage-screws in said block, and adjusting mechanism connecting said block and sleeve, substantially as described.
6. In a device of the character described, a
35 forked body, a sleeve adjustable thereon, a bracket fitted to swing vertically on said sleeve, a file adjustable on said bracket, a block adjustable on said body, adjusting mechanism connecting said block and sleeve, and gage-
40 screws in said block and body, substantially as described.
7. In a device of the character described, a forked body, a sleeve adjustable thereon, a bracket pivoted to swing vertically on said
45 sleeve, a file adjustable on said bracket, a block adjustable on said body, guide-rods connecting said block and sleeve, a coiled spring disposed on said body between said block and sleeve, and gage-screws in said block, substantially as described.
8. In a device of the character described, the forked body C, provided with the standard *d* and the gage-screws *m*, and the block *h*, fitted to slide on said standard and provided with gage-screws *k*, in combination with the
55 sleeve *f*, adjustable on said standard, the screw *r* and rod *r*², connecting said sleeve and block, and the swinging bracket D, provided with the file *w*, substantially as described.
9. In a device of the character described, the forked body C, provided with the standard *d*, in combination with the sleeve *f*, adjustable on said standard, and the swinging bracket D, provided with the file *w*, substantially as described.
10. In a device of the character described, the forked body C, provided with the standard *d*, in combination with the adjustable block *h*, having the gage-screws *k*, the adjustable sleeve *f*, screw *r*, rod *r*², and the swinging
70 bracket D, provided with the file *w*, substantially as described.
11. In a device of the character described, the forked body C, having the standard *d*, in combination with the adjustable block *h*, the
75 sleeve *f*, connected by the screw *r* and rod *r*², the gage-screws *k* in said block, the bracket D, pivoted to swing vertically on said sleeve, and the file *w*, adjustably mounted on said bracket, substantially as described.
12. In a device of the character described, the forked body C, provided with the gage-
80 screws *m* and standard *d*, in combination with the sliding block *h*, provided with the gage-screws *k*, the sleeve *f*, the screw *r* and rod *r*²,
85 connecting said block and sleeve, the spring *t*, mounted on the standard *d*, the bracket D, pivoted to said sleeve, and the file *w*, adjustable on said bracket, substantially as and for the purpose set forth.

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