

No. 850,071.

PATENTED APR. 9, 1907.

E. C. SPRINGER.  
APPARATUS FOR SHARPENING LAWN MOWERS.

APPLICATION FILED DEC. 28, 1905.

Fig. 1

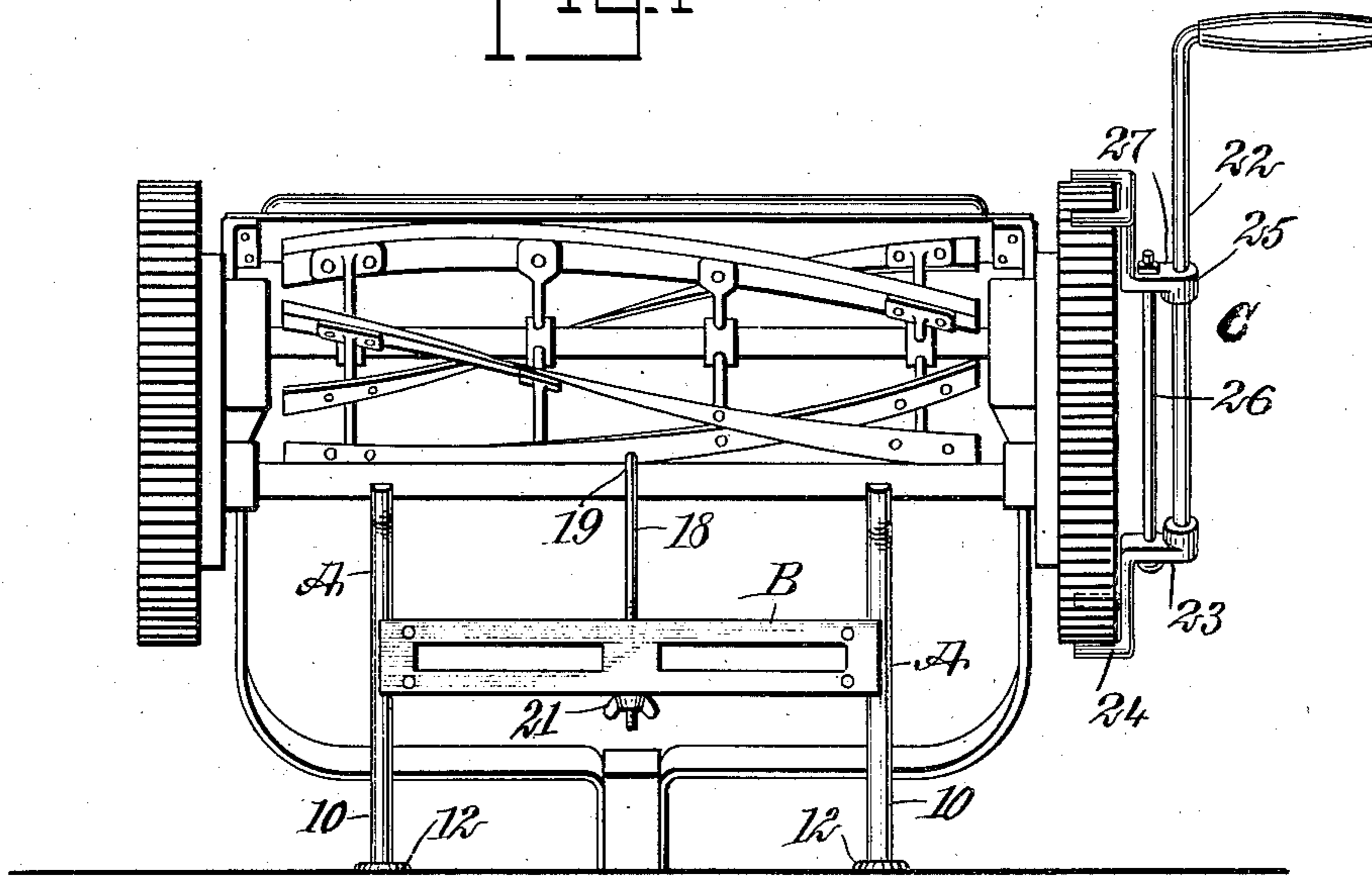


Fig. 2

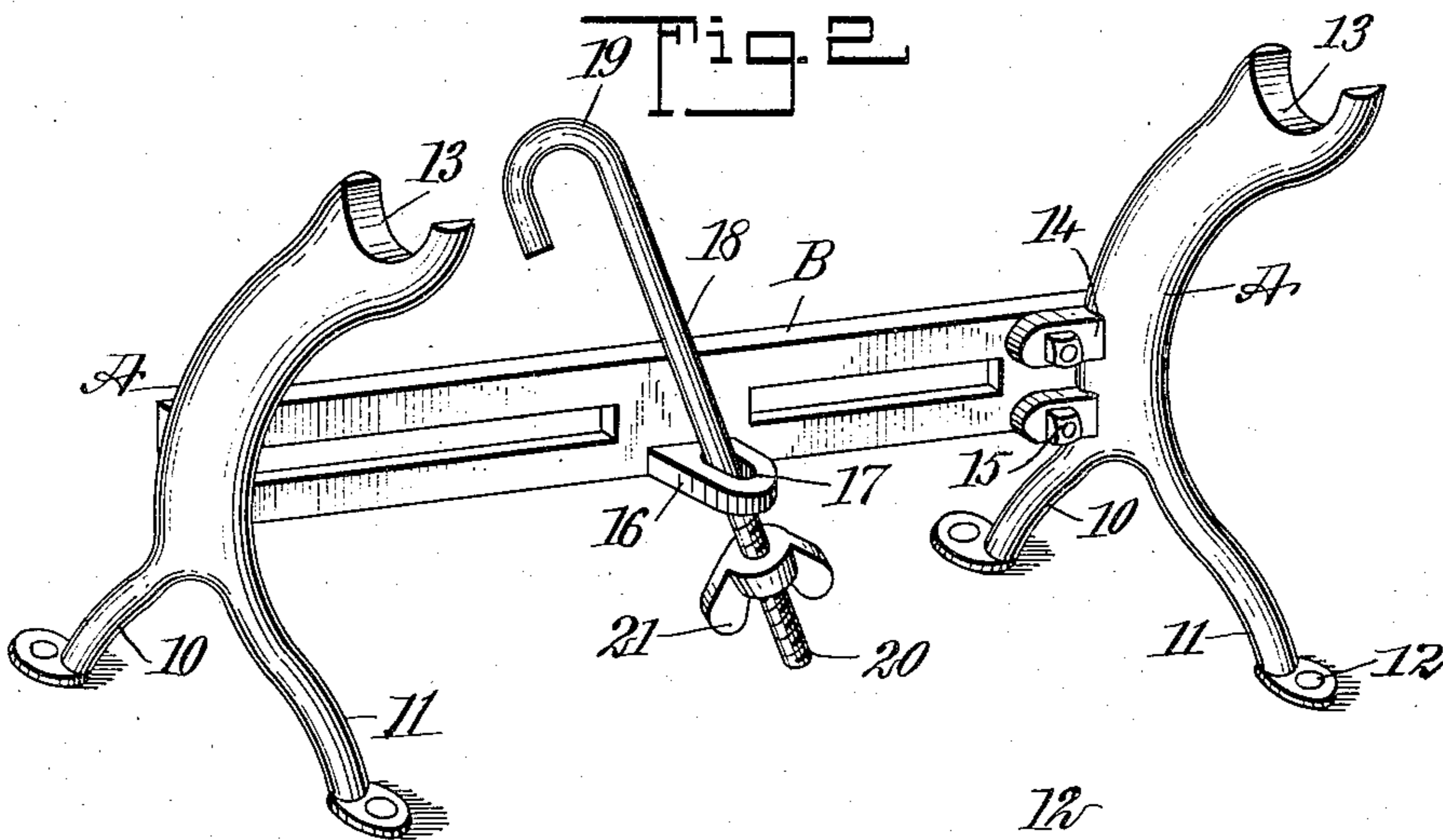
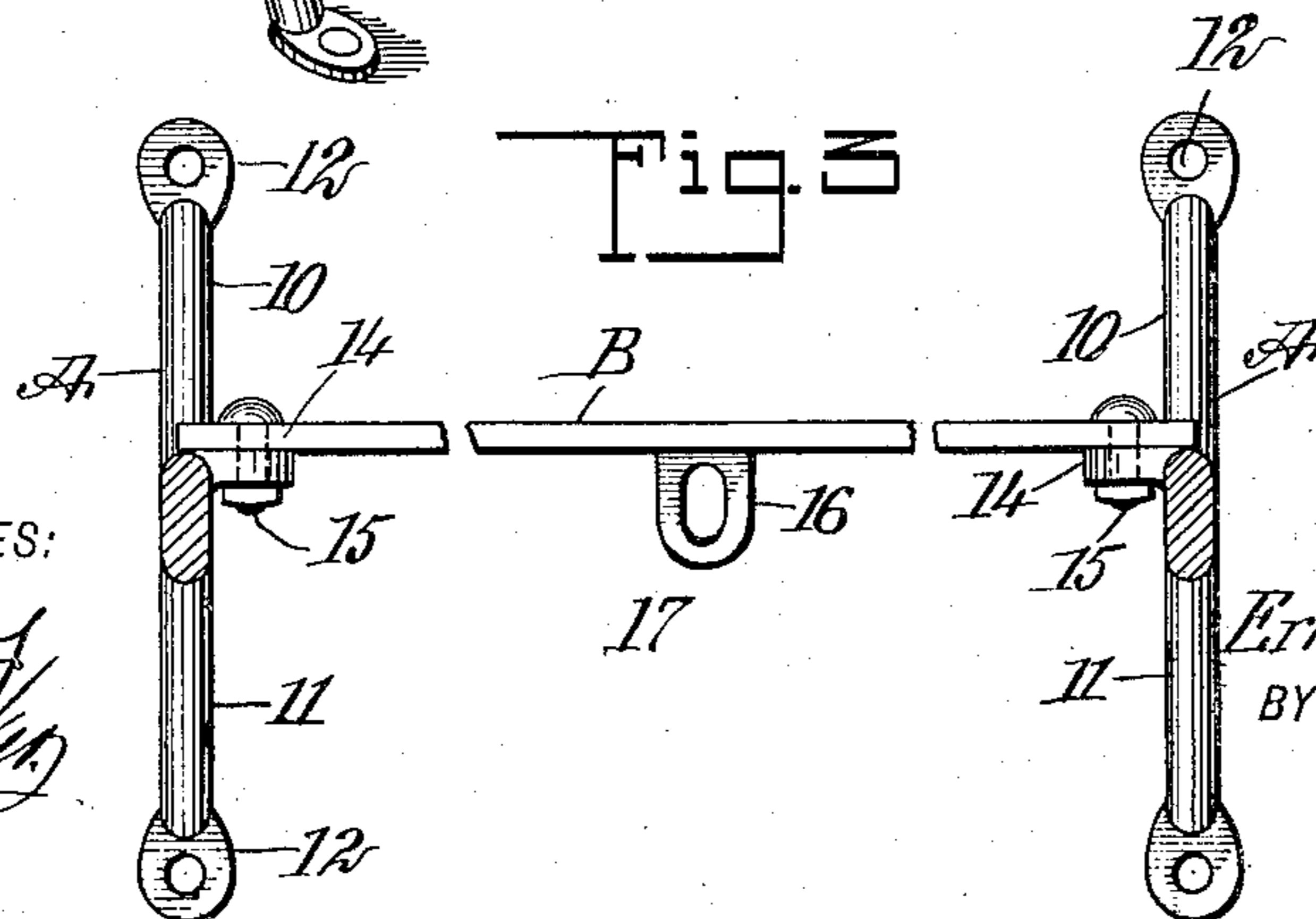


Fig. 3



WITNESSES:

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# UNITED STATES PATENT OFFICE.

ERNEST C. SPRINGER, OF MASON CITY, IOWA.

## APPARATUS FOR SHARPENING LAWN-MOWERS.

No. 850,071.

Specification of Letters Patent.

Patented April 9, 1907.

Application filed December 28, 1905. Serial No. 293,690.

*To all whom it may concern:*

Be it known that I, ERNEST C. SPRINGER, a citizen of the United States, and a resident of Mason City, in the county of Cerro Gordo and State of Iowa, have invented a new and Improved Apparatus for Sharpening Lawn-Mowers, of which the following is a full, clear, and exact description.

The purpose of the invention is to provide a light, durable, and economic device for securely holding a lawn-mower and revolving its working blades for the purpose of sharpening them.

The principal purpose of the invention is to improve upon the construction of a device designed for the same purpose for which Letters Patent of the United States were granted to me August 22, 1905, No. 797,873, to the extent that the device is rendered more simple and it is not needful to remove the wheels or change the gearing before placing a lawn-mower upon the device, it being necessary only to turn the lawn-mower upside down and clamp it in position upon the device, whereupon the wheels may be revolved through the medium of a clamp-handle especially adapted for the purpose.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a front elevation of the device, illustrating a lawn-mower in position thereon. Fig. 2 is a perspective view of the device, and Fig. 3 is a sectional plan view of the same.

A represents opposing cheek-pieces, which cheek-pieces are curved and are bifurcated at their lower ends to form legs 10 and 11, having apertured foot members 12 for attachment to a support.

At the upper end of each cheek-piece A a concavity 13 is formed, the forward walls of which concavities extend farther upward than the rear walls, as is clearly shown in Fig. 2.

The cheek-pieces A are tied together and are held a suitable distance apart by means of a connecting-bar B, and the said bar is usually secured to the cheek-pieces by producing lugs 14 on said cheek-pieces, and bolts 15 are passed through said lugs and the connecting-bar B, the bolts 15 having suitable nuts applied thereto.

A horizontal tongue 16 is formed centrally on the forward portion of the connecting-bar B, and said tongue is provided with an aperture 17, preferably more or less elongated. A clamping-bolt 18 is passed through the aperture in the said tongue 16, and said bolt is provided with an upper head-section 19 more or less downwardly curved. At the opposite or lower end of the bolt exterior threads are produced, and a wing-nut 21 is screwed upon said threaded surface of the bolt, as is shown in Figs. 1 and 2.

In operation the lawn-mower is turned upside down, and the axle of said lawn-mower is received in the concavities 13 of the cheek-pieces A, as is shown in Fig. 1. The head 19 of the bolt 18 is adjusted over the axle of the lawn-mower and the nut 21 is tightened on said bolt to hold the lawn-mower firmly in place.

In connection with the device a clamp C is employed for revolving a traction-wheel of the lawn-mower while the mower is in position on the sharpening device. This clamp consists of a crank-handle 22, the straight or body member whereof has an angular clamping-arm 23 secured thereto, provided with a forked terminal 24, slightly arched to fit to the peripheral surface of a traction-wheel of a mower. A second and similar clamping-arm 25 is made to slide loosely on the straight body portion of the handle 22, and a bolt 26 is passed through the stationary clamping-arm 23 and through the slidable clamping-arm 25, and at the end of the bolt which passes through the latter arm a suitable nut 27 is located.

After or before the lawn-mower has been placed on the device, as above described, the fixed arm of the clamp B is brought in engagement with the periphery of the right-hand traction-wheel of the mower, and then the opposing arm 25 is adjusted to clamp the opposite peripheral portion of the same traction-wheel. The nut 27 is then tightened, causing the crank-handle to be firmly attached to the said wheel, enabling the wheel to be readily turned by the operator by means of one hand while the other hand is employed for sharpening the blades of the mower as the blade-carrier revolves. The sharpening is usually accomplished by applying carborundum and oil by means of a brush to the blades of the mower as said blades are turned.

Having thus described my invention, I

claim as new and desire to secure by Letters Patent—

1. An apparatus for holding a lawn-mower while being sharpened, consisting of curved cheek-pieces having their lower ends bifurcated to form feet and provided with recesses in their upper ends and with lugs on their inner faces intermediate of their ends, a connecting-bar secured to the lugs of the cheek-pieces and provided at its center of length with a slotted laterally-projecting tongue, and a hooked clamping-bolt working in the slot of the said tongue and provided with a nut on its lower end.

2. An apparatus for sharpening lawn-mowers, consisting of opposing curved cheek-pieces provided with feet at their lower ends and having their upper ends recessed to receive the axle of a lawn-mower, a connecting member for the cheek-pieces, provided with a lateral projection, and an adjustable hooked clamping-bolt carried by the projection of the connecting member, said bolt being adapted for use in connection with the part of the mower supported by said cheek-pieces.

3. An apparatus for sharpening lawn-mowers, consisting of curved cheek-pieces

having their upper ends recessed to receive a member of a lawn-mower, a connecting-bar for the said cheek-pieces, a slotted tongue carried by said bar, and a hooked clamping-bolt adjustable in the slot of said tongue.

4. In an apparatus for sharpening lawn-mowers, opposing curved cheek-pieces having concavities in their upper ends, one wall of each concavity extending upward beyond the other wall, a connecting-bar secured to the said cheek-pieces, a tongue extending from the said connecting-bar in the direction of the curvature of the cheek-pieces, which tongue is provided with an aperture, a bolt passed loosely through the said aperture of the tongue, having its upper end crooked and its lower end portion threaded, and a nut located on the threaded portion of the said bolt below the said tongue.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ERNEST C. SPRINGER.

Witnesses:

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LULU B. TYSON.