A. B. Jones,

Sickle Grinder.

No. 98693. Patented Jan. 11. 1870.

Fig. 1.

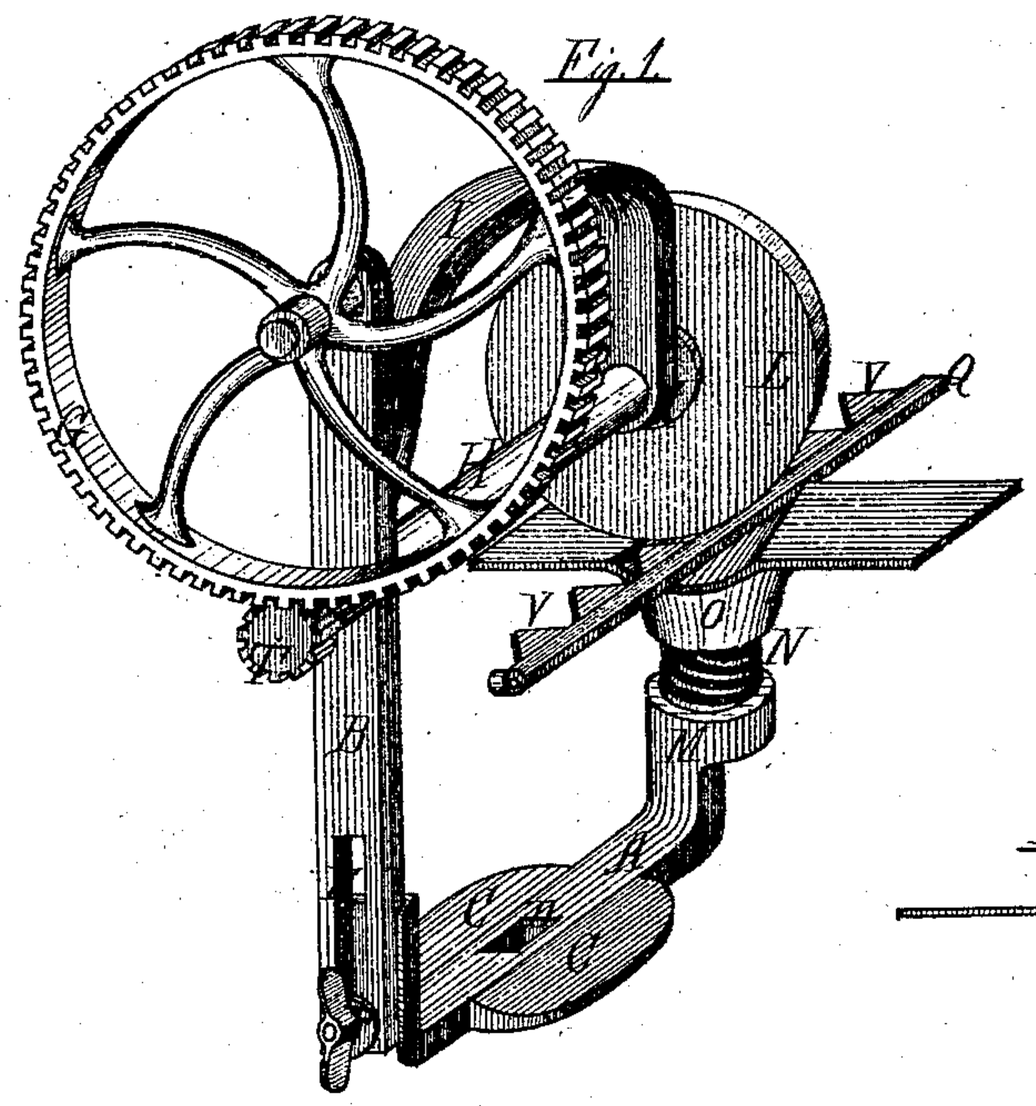
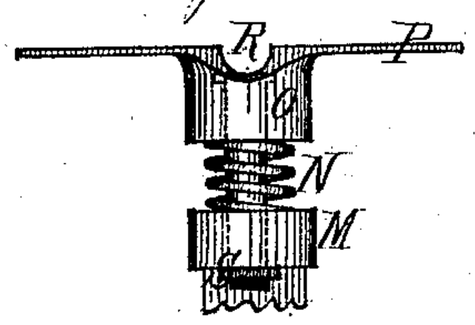


Fig. 2.



Witnesses.

Ch. Fabel.

F. P. Catlin

Inventor.

A. B. Jones

United States Patent Office.

A. B. JONES, OF LOWELL, WISCONSIN.

Letters Patent No. 98,693, *dated January* 11, 1870.

IMPROVEMENT IN SICKLE-GRINDER.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, A. B. JONES, of Lowell, in the county of Dodge, and State of Wisconsin, have invented a new and useful Improvement in Sickle-Grinders; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and letters marked thereon, making a part of this description, in which—

Figure 1 is a perspective representation of my invention.

Figure 2, the part claimed to be new, removed from the other parts.

The present invention relates to an improvement in that class of grinders which is designed more especially for sharpening the knives of mowers and reapers, without removing them from the sickle-bar; and

Its nature consists in combining, with an emery-wheel and suitable gearing, an adjustable spring-stand, which is used to support the knives of the sickle-bar, and which is so constructed that the knives may be ground on any bevel required.

C C represent an ordinary iron stand, which is pro-is provided with a hole, D, for the convenience of bolting it fast to a bench or other convenient foundation, and to which an adjustable standard, B, provided with a slot, E, is held by means of a bolt and nut F.

This standard B supports the shaft of a drive-wheel, G, and one end of a shaft, H, which supports a pinion, T, and an emery-wheel, L, the other end of the shaft being supported by a curved arm, I, fastened to the standard B at J, as shown in fig. 1.

The stand C C supports an arm, A, which is provided with a socket, M, at its upper end, in which the lower end of a coil spring, N, is placed.

The upper end of this spring fits into a socket, O, which is rigidly fastened to a bed-plate, P, on which the sickle-bar Q is placed when the knives V are being ground, the plate P having a depression, R, made in the central part of its upper side, permits the stone L to pass down between the knives, and a bolt, S, fig. 2, being put through the sockets O M, and through the centre of the spring N, holds the latter in place.

By means of this construction and arrangement, the sickle-bar Q, may have any angle or position, relative to the periphery of the stone L, which is required, or may be necessary to grind the knives V.

The operation is very simple, requiring only that the wheel G be put in motion, and the sickle-bar Q so held and turned on the bed P as to properly bring the knives under the wheel L, said bed readily inclining in any required direction for this purpose.

Having thus described my invention,

What I claim, and desire to secure by Letters Patent of the United States, is—

The adjustable bed P, provided with a depression, R, and socket O, in combination with the spring N, bolt S, and socket M, arranged with reference to the stand C C, standard B, wheel G, pinion T, shaft H, and wheel L, as set forth.

A. B. JONES.

Witnesses:

M. ZABEL,

F. P. CATLIN.