S. GESLEY.

Sulky-Cultivator.

No. 201,001. Patented March 5, 1878.

Fig 1

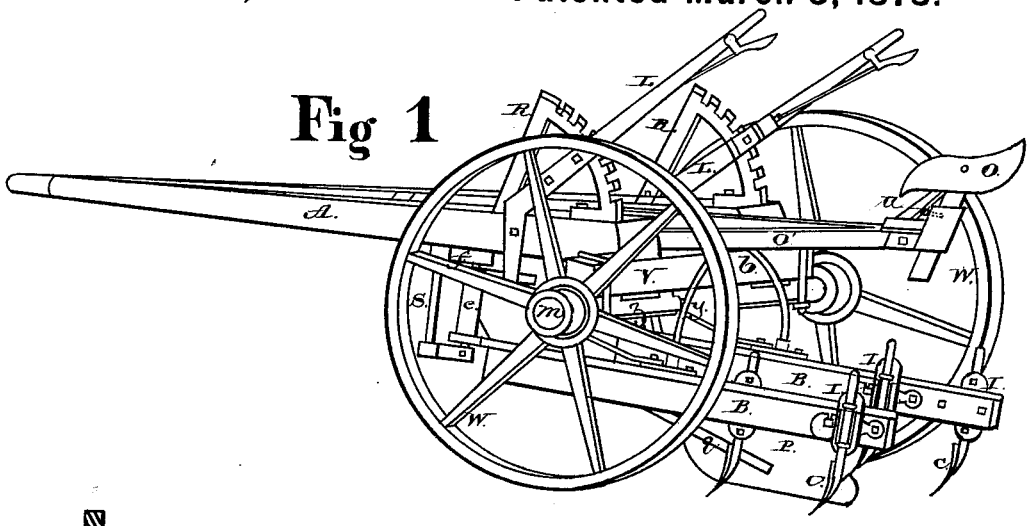


Fig 2

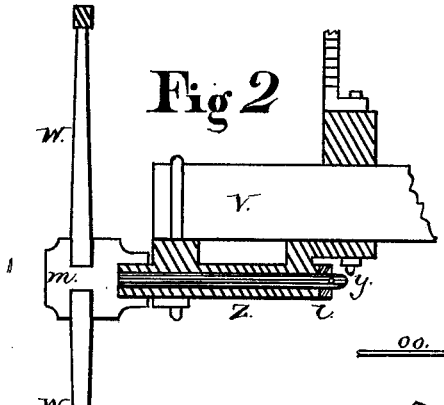
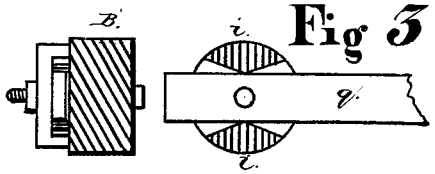


Fig 3



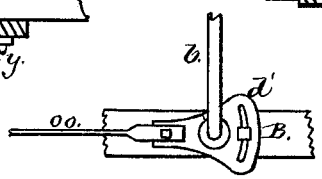
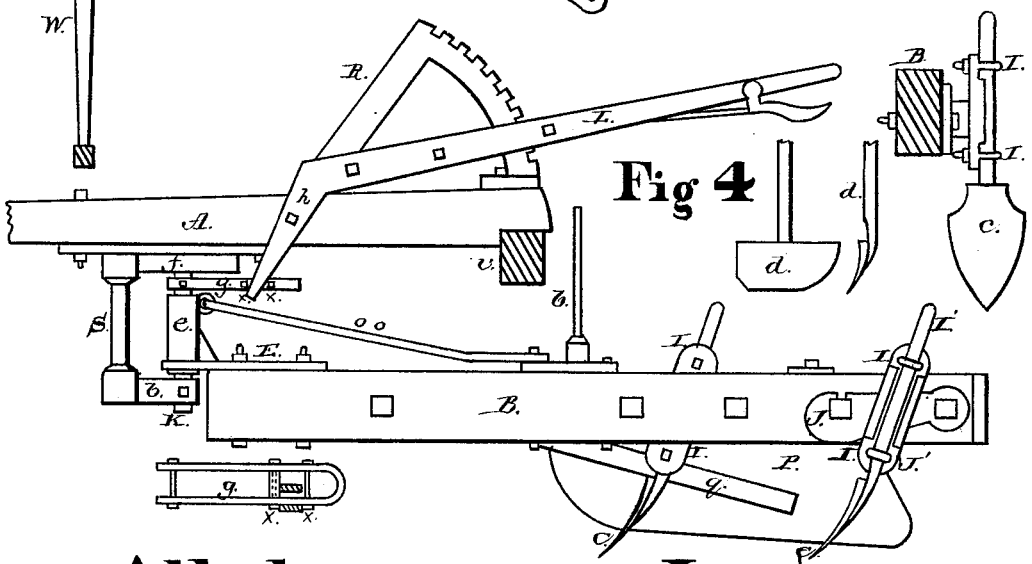


Fig 4



Attest

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UNITED STATES PATENT OFFICE.

SABER GESLEY, OF BELOIT, WISCONSIN.

IMPROVEMENT IN SULKY-CULTIVATORS.

Specification forming part of Letters Patent No. **201,001**, dated March 5, 1878; application filed April 19, 1877.

To all whom it may concern:

Be it known that I, SABER GESLEY, of the town of Beloit, in the county of Rock and State of Wisconsin, have invented certain new and useful Improvements in Sulky-Cultivators; and I do hereby declare the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

The object of my invention is to produce a sulky-cultivator better adapted for field-work than any heretofore in use, and the most important features of which consist in the peculiar manner and method of construction and detail of arrangement in attaching, supporting, and manipulating the cultivator plow-beams, as also the style of fixing thereto and operating the various devices connected therewith, all which is fully set forth and hereinafter particularly described, as shown in the accompanying drawings, in which—

Figure 1 is a perspective view of my improved cultivator in working condition. Fig. 2 is a vertical section of one of the wheels, spindle, and axle-beam. Fig. 3 is a side and front view of a detached section of one of the bars for supporting the shields, and manner of attaching to and adjusting the shields thereon; and Fig. 4 is a vertical longitudinal section of the machine, the wheels not being shown therein.

Similar letters of reference indicate corresponding parts.

In the drawing, letter A represents the forked tongue of the cultivator; V, the axle-beam; W, the wheels; *m* and *y*, the solid combined metal hub and spindle, provided with a box, Z, and secured to the axle-beam V, as shown at Fig. 2. O is the driver's seat, which is supported by a slotted holder at the outer ends of the forked arms O′, and is raised or lowered, as desired, and held in position by means of the set-screw U. The forward ends of the bars O′ are hinged, so that the seat may be swung over forward, and thus allow the machine to be used as a walking-cultivator.

L L are levers, and R R ratchet-gears, for raising, lowering, and holding the cultivator-plows in proper position for work.

The cultivator-beams B are, at their forward ends, pivoted to the foot-bar *b* of the standards S, which are bolted to the under sides of the tongue A. By means of the thimble-sockets *e* and posts K the cultivators are allowed free lateral action.

The upper ends or heads of the pivoted posts K, supporting the thimble-sockets *e*, move freely forward and back in a suitable groove in the under side of the block *f*, and to the head of the post K a short pitman or yoke, *g*, is pivoted. This pitman or yoke engages with the foot of the lever L, which has a double lip for that purpose, as shown in the detached figure thereof between the bolts *x x*, by means of which the operator, manipulating the levers L, will be enabled to control the cultivators, raising and lowering them at pleasure, said levers being pivoted to the tongue A at *h*, as shown.

The cultivator-shovels *c* are secured to and made adjustable upon the beams B by means of the peculiarly-constructed plates with eye-bolts I, as shown.

Fig. 3 shows an enlarged section of one of the shield-bars and of the beams B, with the adjustable clamping disk or cap *i i* employed for securing the shields P to the inner sides of the beams B.

The disk or cap *i i* is composed of a metal plate, the inner face having an angled recess cut across it deep enough to receive the bar *q*, and to allow it to oscillate freely upon the bolt by which it is pivoted to the range of the angle of the recess shown, and that part of the face of the disk or cap shown in vertical lines, being cast in rough sharp lines, will take firm hold of the wood when bolted tightly thereto, so that the disk or cap may be set so as to hold and carry the shield-bars *q* at any desired angle, whereby the shields may be caused to travel entirely and considerably above the surface of the ground when that may be best for protecting the growing crop. *d d* show a front and side view of scrapers which may be used in place of the front shovels when the corn is small.

The width apart of the plow-beams B is

secured by the arching rod *b* spanning and connecting the two beams, as shown at Fig. 1, regulated by the adjustable slotted clamp *d'* and bolt, as shown at the detached section next above Fig. 4; and *o o* are brace-rods for supporting the beams B, as shown at Fig. 4.

Z, Fig. 2, shows a cast box bolted to the under side of the axle-beam V, with the outer end turned off to fit into the recessed chamber on the inside of the hub, thereby preventing dirt or grit from getting into the bearing and cutting it out.

l is a notched washer, with a pin running through the spindle *y* on the outside of it, so that it shall turn with the spindle, and prevent the wheel W from coming off.

Having thus described the construction and manner of operating my improved cultivator, I claim as new and desire to secure by Letters Patent—

1. The standard S, having the slotted foot-bar *b* on its lower end and the grooved block or arm *f* upon its upper end, and provided with the post K, pivoted to the foot-bar *b*, and sliding in the grooved arm *f*, substantially as shown and described.

2. The combination of the standard S *f b* and post K with plate E, having thimble-socket *e* and plow-beam B, as shown and described.

3. The combination of standard S *f b*, socket-plate E *e*, brace-rods *o o*, plow-beams B, hinged slotted arms *g*, bent levers L, and ratchet-plates R, all arranged substantially as shown and described, and for the purpose set forth.

In testimony that I claim the foregoing as my own invention I affix my signature in presence of two witnesses.

SABER GESLEY.

Witnesses:
O. GESLEY,
I. E. GOODALL.