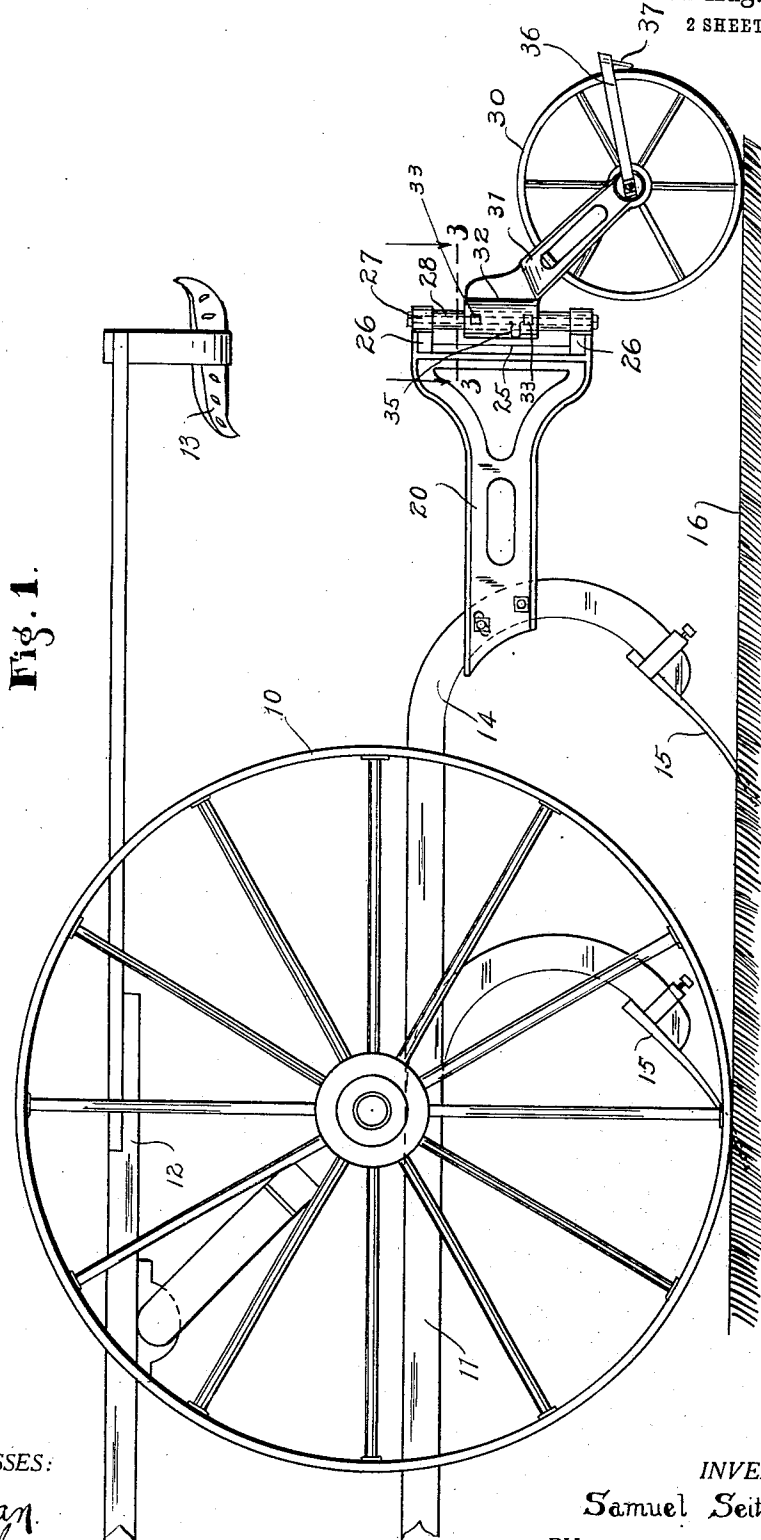


931,504.

S. SEITNER, JR.
SWIVEL WHEEL ATTACHMENT FOR CULTIVATORS.
APPLICATION FILED JULY 23, 1908.

Patented Aug. 17, 1909.

2 SHEETS—SHEET 1.



WITNESSES:

J. A. Swan.
C. M. Greener

INVENTOR.

Samuel Seithner Jr.

BY

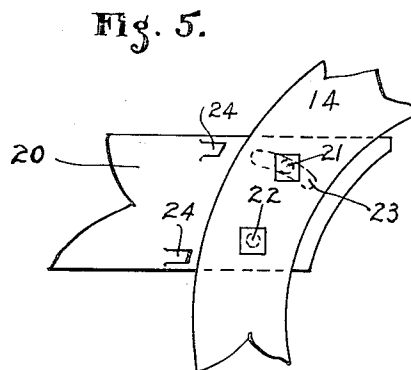
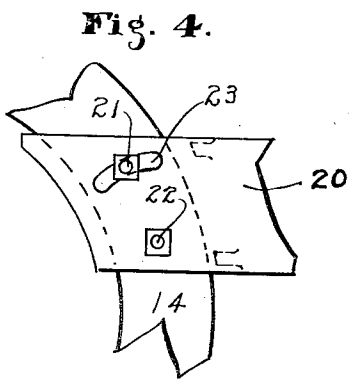
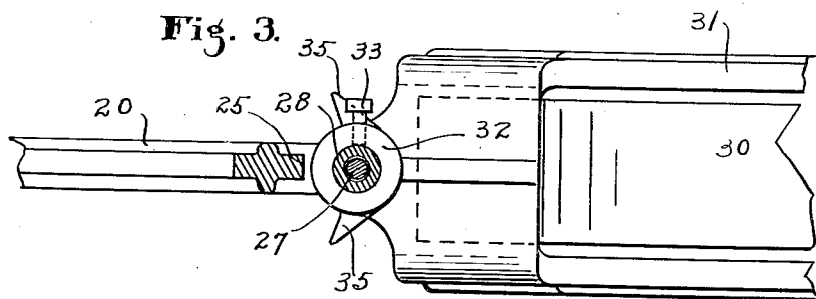
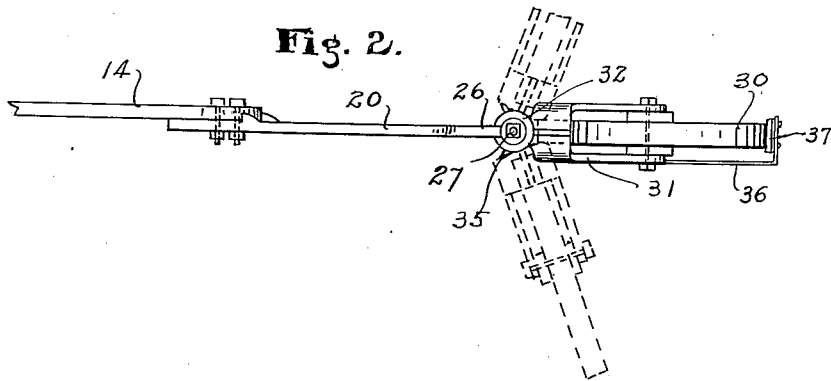
V. H. Lockwood,
ATTORNEY.

S. SEITNER, JR.
 SWIVEL WHEEL ATTACHMENT FOR CULTIVATORS.
 APPLICATION FILED JULY 23, 1908.

931,504.

Patented Aug. 17, 1909.

2 SHEETS—SHEET 2.



WITNESSES:

J. H. Swan.
 O. M. Greener.

INVENTOR.

Samuel Seitner Jr.

BY

V. H. Lockwood.
 ATTORNEY.

UNITED STATES PATENT OFFICE.

SAMUEL SEITNER, JR., OF ROANN, INDIANA.

SWIVEL-WHEEL ATTACHMENT FOR CULTIVATORS.

No. 931,504.

Specification of Letters Patent.

Patented Aug. 17, 1909.

Application filed July 23, 1908. Serial No. 445,014.

To all whom it may concern:

Be it known that I, SAMUEL SEITNER, JR., of Roann, county of Wabash, and State of Indiana, have invented a certain new and useful Swivel-Wheel Attachment for Cultivators; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which like numerals refer to like parts.

The object of this invention is to improve swivel wheel attachments to the beam of cultivators for limiting and regulating the depth of operation of the shoes or plows thereof.

The chief feature of this invention consists in attaching to the beam of the cultivator a frame in connection with which the swivel wheel frame is mounted that is provided with a vertical pivot rod at its rear end and a parallel brace and stop bar near said rod, mounting a tube on said rod that turns readily thereon, and securing adjustably on said tube a sleeve connected with the frame in which the wheel is mounted. Said sleeve on the swivel wheel frame can be slipped up or down on said tube and be secured thereto in adjusted position by set screws and it also carries on each side a stop lug adapted to engage the stop bar of the frame that is fastened to the beam of the cultivator. This makes a very simple and cheap construction that operates readily and is also readily adjusted.

In connection with the foregoing I provide a scraper for the wheel to keep its periphery clear of accumulated dirt, as the accumulation of dirt on said swivel wheel will often materially affect the pitch and depth of operation of the cultivator shoes or plows, as such accumulation of dirt has the effect of increasing the diameter of the swivel wheel.

The full nature of this invention will be understood from the accompanying drawings and the following description and claims.

In the drawings Figure 1 is a side elevation of the cultivator equipped with my attachment, the forward part of the frame of the cultivator being broken away. Fig. 2 is a plan view of the rear end of one of the beams of the cultivator and of my attachment thereto, altered positions of the swivel wheel being shown by dotted lines. Fig. 3 is a horizontal section on the line 3—3 of Fig.

1. Fig. 4 is an elevation of the near side of a portion of the device showing the means for connecting my attachment to the beam, parts being broken away. Fig. 5 is an elevation of the farther side of what appears in Fig. 4.

There is shown a cultivator with the main wheel 10 and beam 11 and frame 12, the latter carrying a seat 13 and the former carrying a beam 14 on the lower end of which is secured a shovel or plow 15 that projects the usual distance into the soil 16.

To the rear end of the beam 14 I secure a frame 20 in the manner shown in Figs. 1 and 5. A pair of bolts 21 and 22 extend through the beam and through the forward end of the frame 20. The upper bolt 21 passes through a slot 23 in the frame 20 that is curved concentric with the bolt 22, whereby the elevation of the rear end of the frame 20 may be adjusted as desired. On the frame 20 there are a pair of stop lugs 24 adapted to engage the rear surface of the beam 14 to limit the upward and downward movements of the frame 20.

The rear end of the frame 20 is divided and the arms 26 thereof provided with a vertical brace and stop bar 25 between them and there are rearwardly extending portions of the arms 26 in which a rod 27 is secured that is vertical and parallel with the bar 25. A tube 28 is mounted on said rod 27 loosely so as to readily turn thereon and it extends the full distance between the arms 26.

The swivel wheel 30 is mounted in the swivel wheel frame 31 that has on its forward end a sleeve 32 which surrounds the tube 28 so as to be vertically adjustable thereon and is held in any adjusted position by the set screws 33. Therefore, in operation the sleeve 32 of the swivel wheel frame is rigidly secured to the tube 28 and said latter tube turns on the rod 27, but while the sleeve 32 has no rotary movement on and independently of the tube 28 it is vertically movable and adjustable thereon.

On the sleeve 32 there is a pair of stop lugs 35, one on each side, that are adapted to engage the stop bar 25 and thus the lateral swinging movement of the caster wheel and frame is limited as indicated in Fig. 2 by dotted lines.

A scraper arm 36 is connected with the lower end of the swivel wheel frame 31 and extends rearwardly and carries a scraper 37 on its rear end in position to engage and

scrape the dirt off the periphery of the wheel 30. This maintains a uniform diameter of the wheel 30, as it prevents the diameter of the wheel being increased by an accumulation of dirt on the periphery thereof. Hence the swivel wheel construction will maintain the beam of the cultivator at a constant elevation in accordance with the adjustment thereof.

10 What I claim as my invention and desire to secure by Letters Patent is:

1. The combination with the beam of a cultivator or the like, of a rearwardly extending frame, a vertically disposed rod on the rear of said frame, a tube rotatably 15 mounted on said rod, a swivel wheel frame provided at its forward end with a sleeve vertically adjustable on said tube, and means for securing said sleeve to said tube in its 20 adjusted position, whereby the tube can turn on the rod and the sleeve can be vertically adjustable on said tube.

2. The combination with the beam of a cultivator or the like, of a rearwardly extending frame secured thereto having a ver- 25 tically disposed bar at its rear end, a rod secured to the rear end of said frame parallel with and near said bar, a tube rotatably

mounted on said rod, a swivel wheel frame with a sleeve vertically adjustable on said tube, means for securing the sleeve to the tube, and a lug extending from each side of said sleeve in position to engage said vertical bar for limiting the lateral swinging movements of the swivel wheel frame. 35

3. The combination with the beam of a cultivator or the like, of a frame for carrying the swivel wheel that extends rearwardly from said beam, a pair of bolts in said beam for securing said frame thereto, 40 said frame being provided with a slot for one of said bolts that is curved concentrically with the center of the other bolt to permit the vertical adjustment of the rear end of said frame, and stop lugs on said 45 frame adapted to engage said beam and limit the vertical oscillatory movement of said frame.

In witness whereof, I have hereunto affixed my signature in the presence of the 50 witnesses herein named.

SAMUEL SEITNER, JR.

Witnesses:

MARGARET EBBINGHOUS,
LON D. FLEMING.