

W. J. LUTTRELL.
CULTIVATOR ATTACHMENT.
APPLICATION FILED JUNE 22, 1905.

Fig. 1.

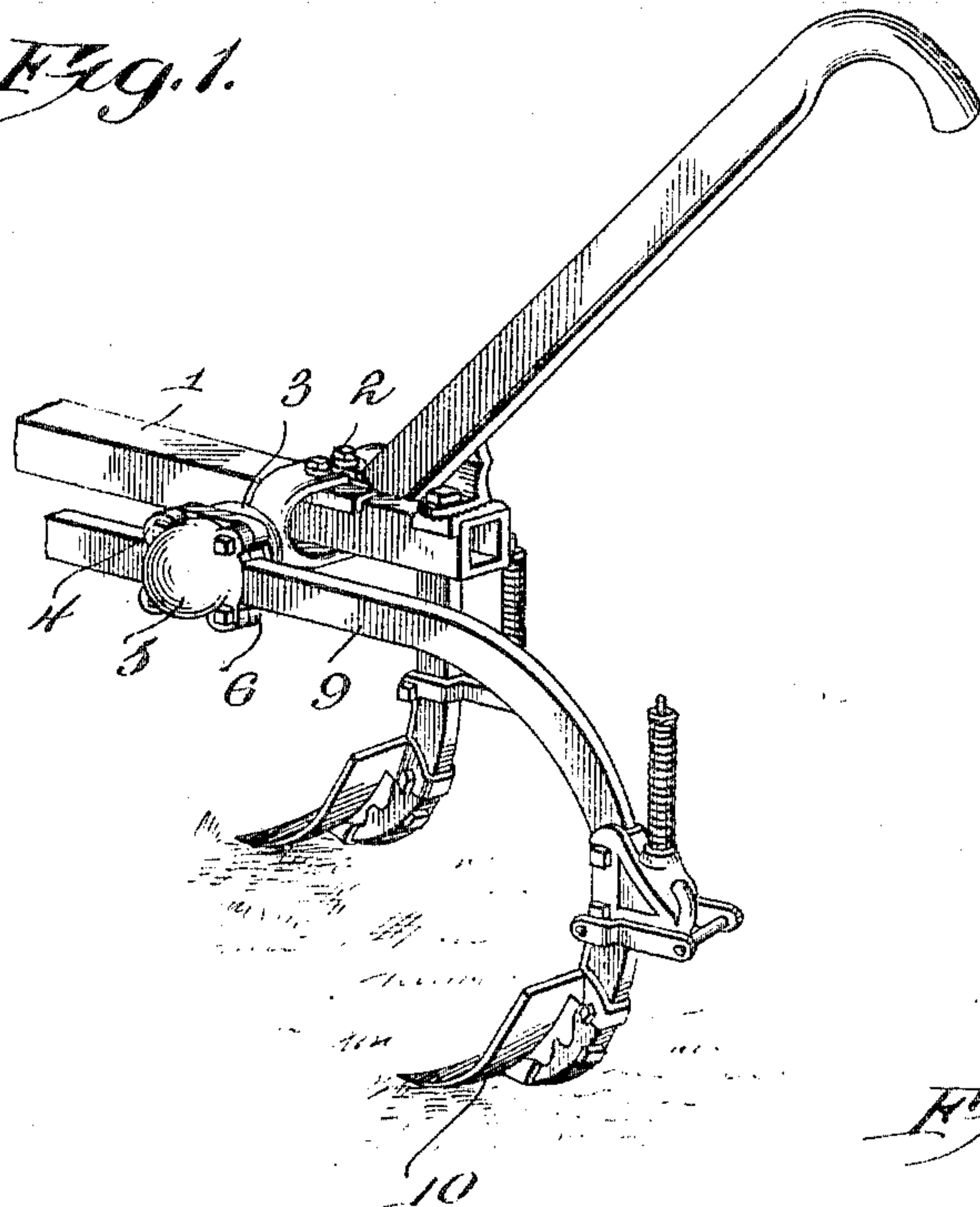


Fig. 2.

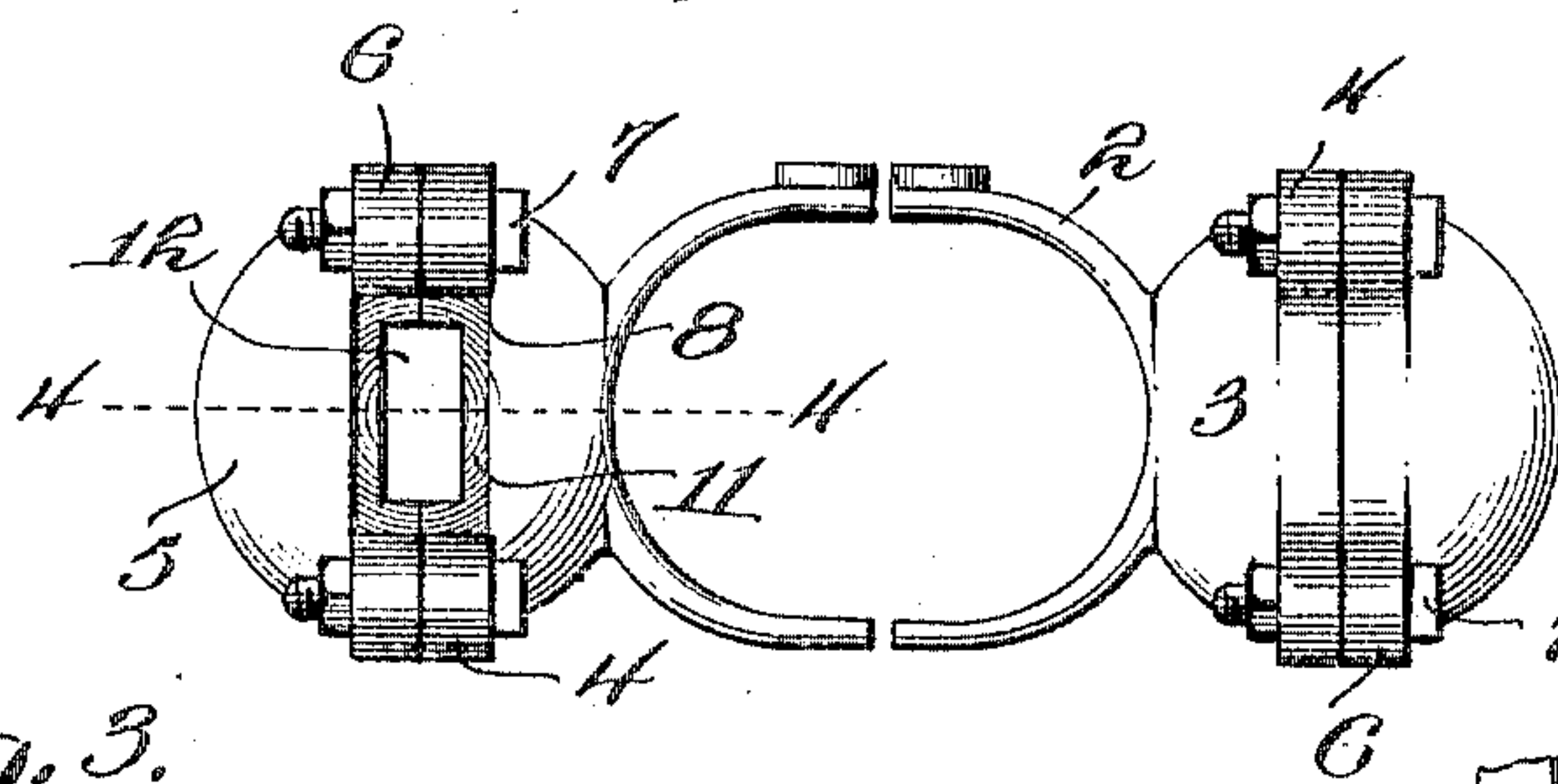


Fig. 4.

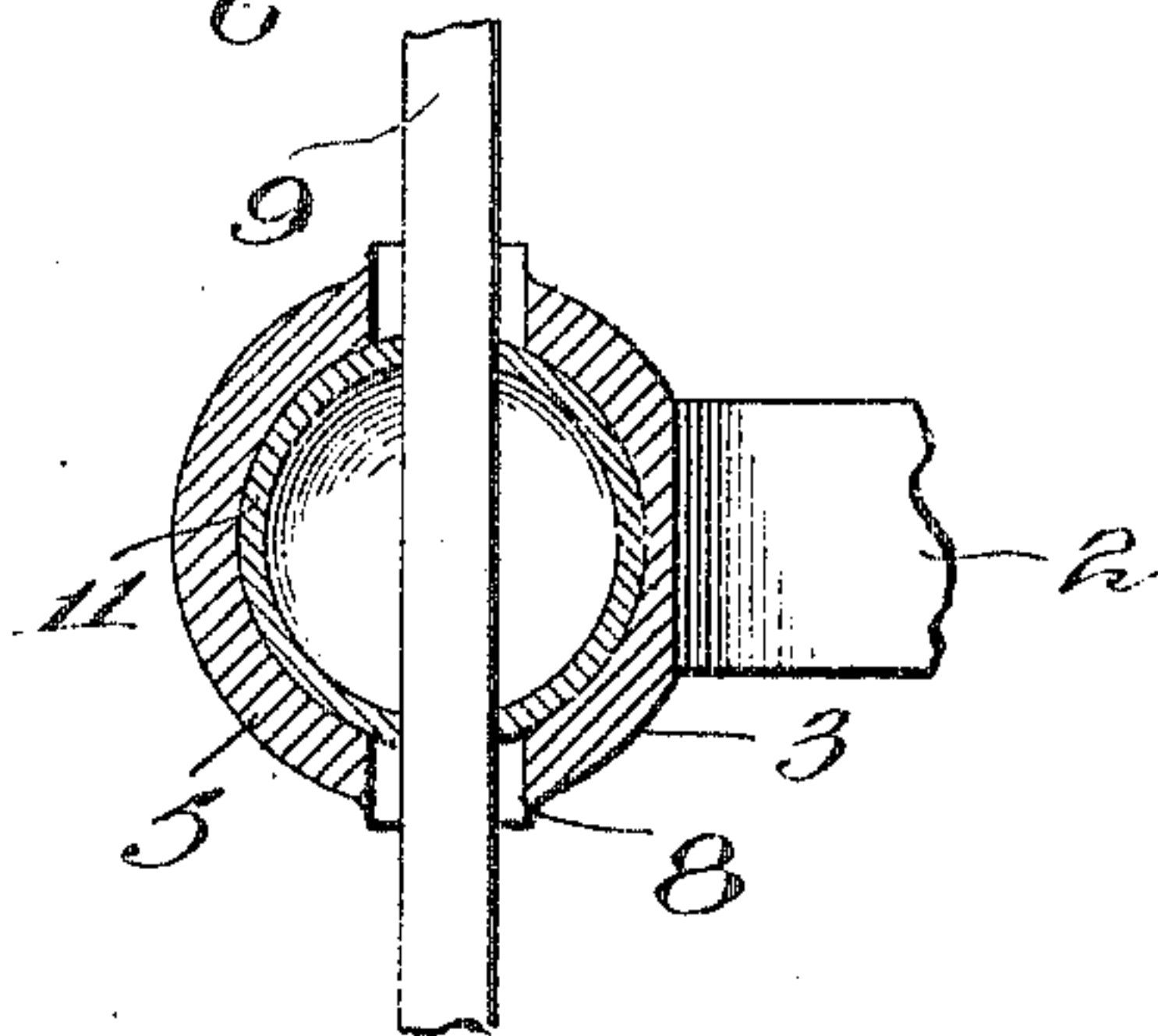
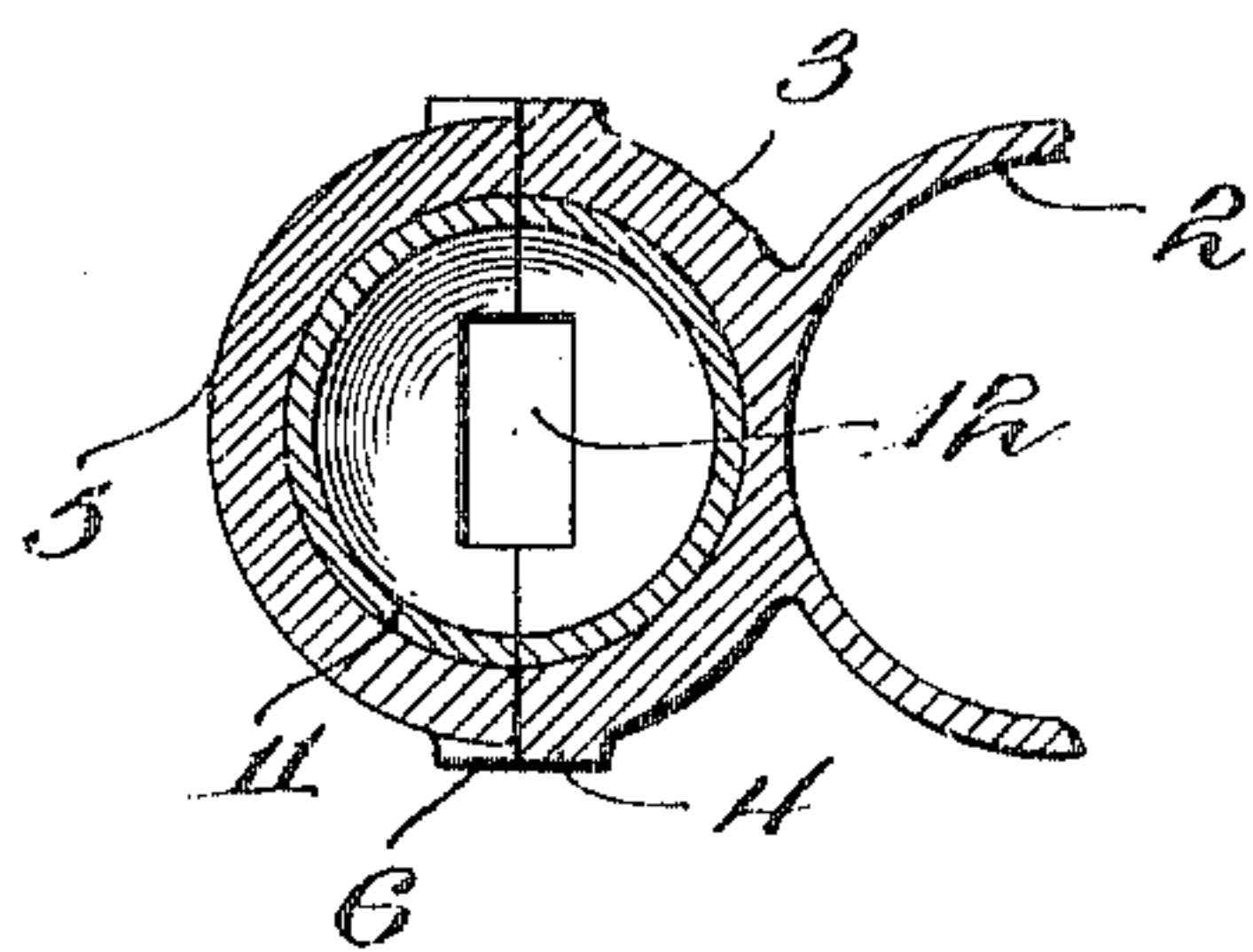


Fig. 3.



Inventor

W. J. Luttrell,

Witnesses
Louis C. Starke
Herbert D. Lawson.

By W. J. Fitzgerald & Co.,
Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM JACKSON LUTTRELL, OF HONEYGROVE, TEXAS.

CULTIVATOR ATTACHMENT.

No. 804,419.

Specification of Letters Patent.

Patented Nov. 14, 1905.

Application filed June 22, 1905. Serial No. 266,490.

To all whom it may concern:

Be it known that I, WILLIAM JACKSON LUTTRELL, a citizen of the United States, residing at Honeygrove, in the county of Fannin and State of Texas, have invented certain new and useful Improvements in Cultivator Attachments; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to wheel-cultivators, and more particularly to devices of this character in which the shanks or footpieces carrying the shovels are attached to a saddle or cross-head on the draft-beam in such a manner as to permit the said shanks to be adjusted to different angles to the surface or to the line of draft.

The invention is an improvement upon the machine covered by Patent No. 752,570, granted to me on February 16, 1904; and its object is to provide a novel connection between the saddle and the footpiece whereby the shovel can be adjusted to any desired position and securely locked against accidental displacement.

With the above and other objects in view the invention consists of the novel construction and combination of parts hereinafter more fully described, and pointed out in the claim.

In the accompanying drawings I have shown the preferred form of my invention.

In said drawings, Figure 1 is a perspective view of a portion of a cultivator employing my improved connecting devices. Fig. 2 is an enlarged rear elevation of the saddle detached and showing the same constructed for holding a rearwardly and a vertically extending beam. Fig. 3 is a vertical section through the left saddle; and Fig. 4 is a section on line 4 4, Fig. 2, and showing a beam in position therein.

Referring to the figures by numerals of reference, 1 is the draft-beam of a cultivator, to which are connected saddles consisting of a central yoke 2, which is suitably fastened to and surrounds the beam 1. Each yoke 2 is formed integral with a substantially semispherical socket 3, having ears 4 suitably disposed adjacent the edge thereof and extending laterally from the socket. Each of these sockets is provided with a cap 5, which is

preferably substantially semispherical in form and hollow, and the cap also has ears 6 adapted to be secured to the ears 4 by means of bolts 7 or in any other suitable manner. Opposite portions of the sockets and their caps are recessed to form openings 8, which are considerably larger than the beams 9, carrying the shovels 10. Located within the sockets and their caps are hollow balls 11, formed of metal, each consisting of two similar sections, the adjoining edges of which are correspondingly recessed to produce alining apertures 12 when the two ball-sections are assembled. The apertures thus produced are slightly smaller than the transverse area of the beams 9.

When it is desired to secure the footpiece of a shovel to the saddle, the same is inserted within the apertures 12, formed by one of the balls, and the bolts 7 of the socket containing said ball are tightened so as to clamp the ball between said socket and its cap 5. The edges of the apertures 12 will therefore be forced tightly into contact with the beam and will prevent it from moving longitudinally. By reason of the frictional contact of the ball with its socket said ball will be prevented from moving, and therefore the beam will be held against any swinging action. If it is desired to move the beam at a different angle to the line of draft or to the surface, it is merely necessary to loosen the cap 5 and the beam can then be turned or moved into the desired position, and by retightening the bolts it will be firmly held in such position.

In Fig. 2 I have shown two saddles constructed to receive two beams, one extending rearwardly and the other vertically. It will be understood, however, that, if desired, both sockets can be shaped to receive either rearwardly or vertically extending beams.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a cultivator the combination with a draft-beam; of a yoke connected thereto and constituting a saddle, an integral socket upon the yoke and at one side of the beam, a cap on the socket, said cap and socket having registering recesses in their edges forming apertures, both the cap and recess forming a substantially spherical recess between the apertures, a hollow ball within said spherical recess, said ball being formed of similar semispherical sections having registering recesses

in their edges, a shovel - beam extending
through the apertures between the socket and
cap and through the recesses of the ball-sec-
tions, and means extending through the socket
5 and cap for clamping the ball-sections there-
between and upon the beam.

In testimony whereof I have signed my name

to this specification in the presence of two sub-
scribing witnesses.

WILLIAM JACKSON LUTTRELL.

Witnesses:

J. A. UNDERWOOD,
ED. JOHNSTON.