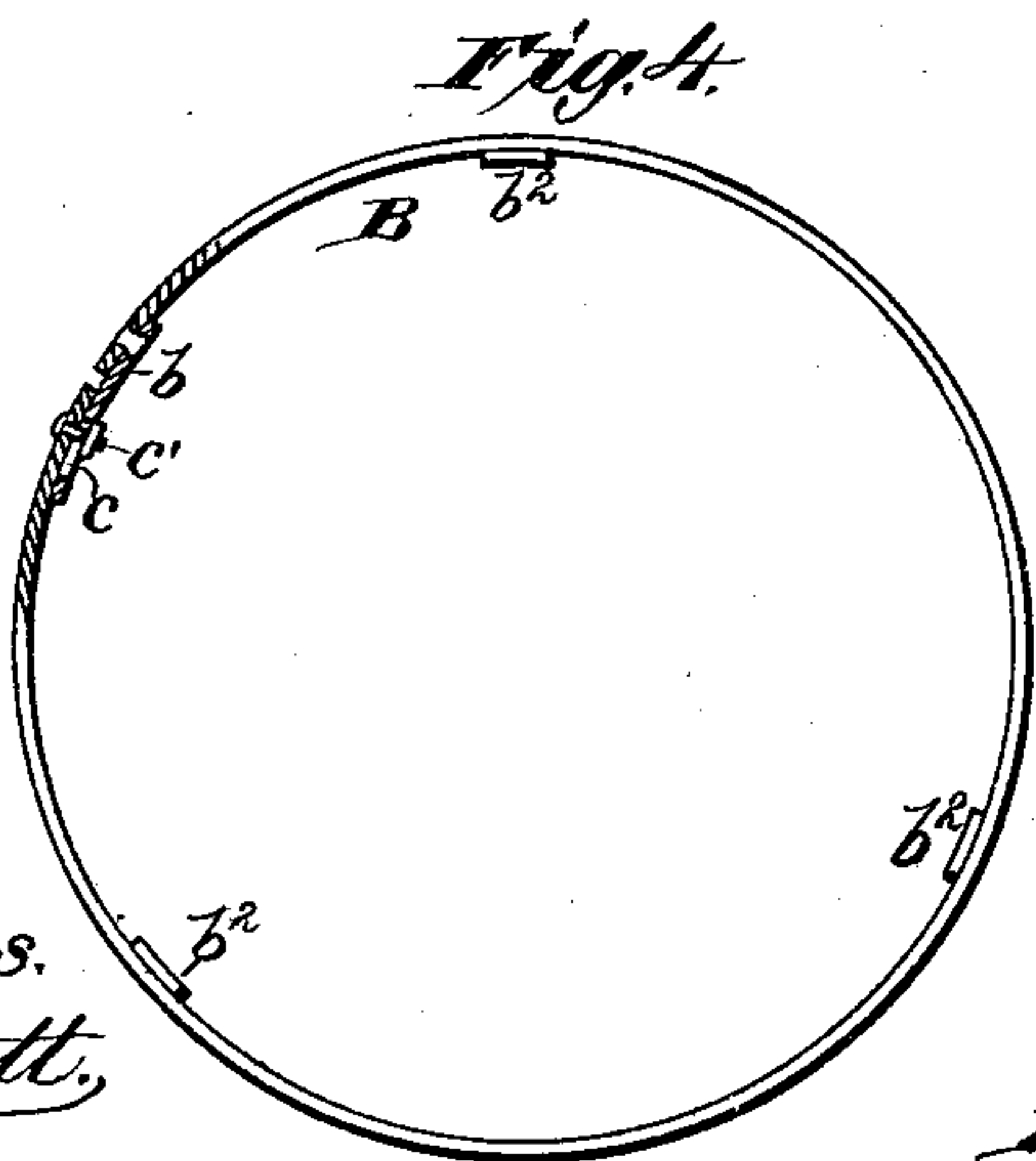
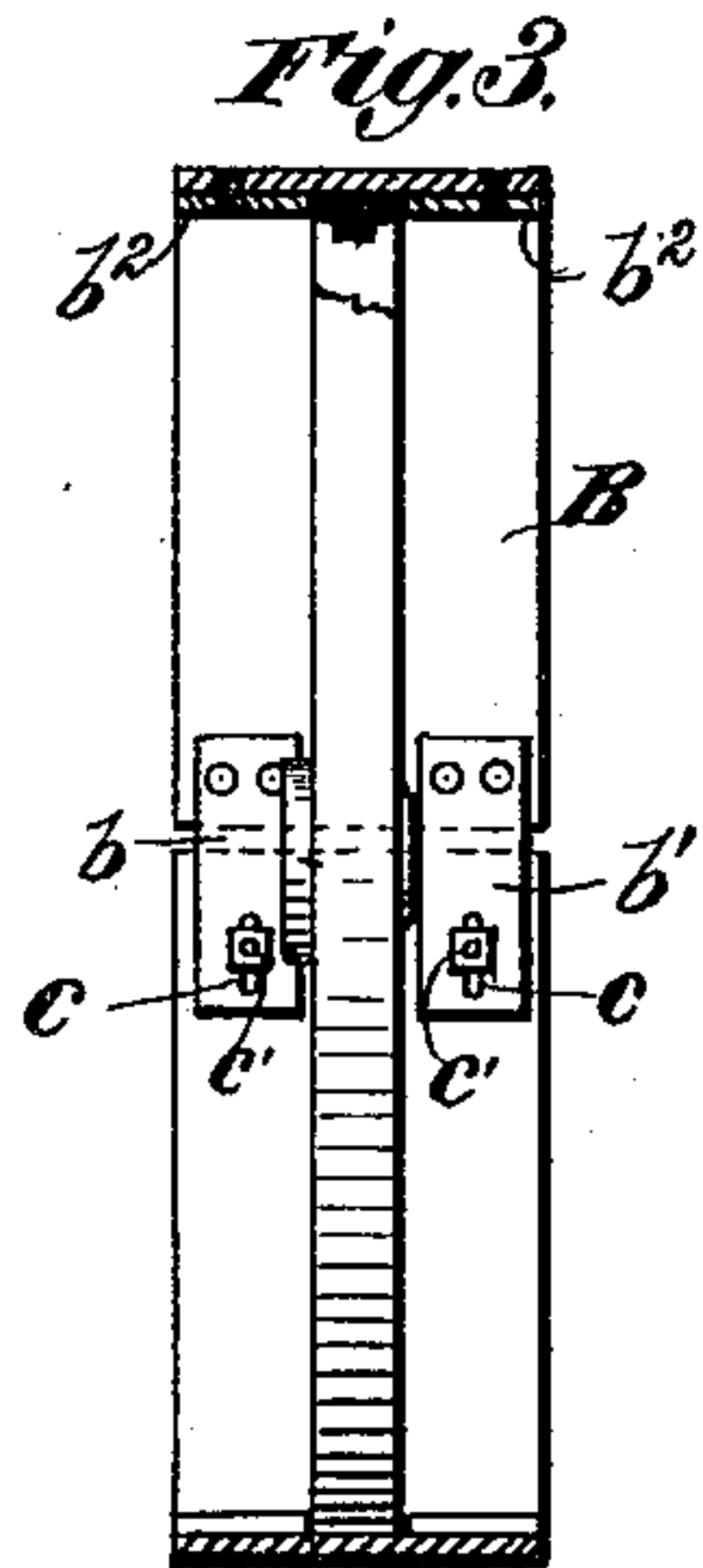
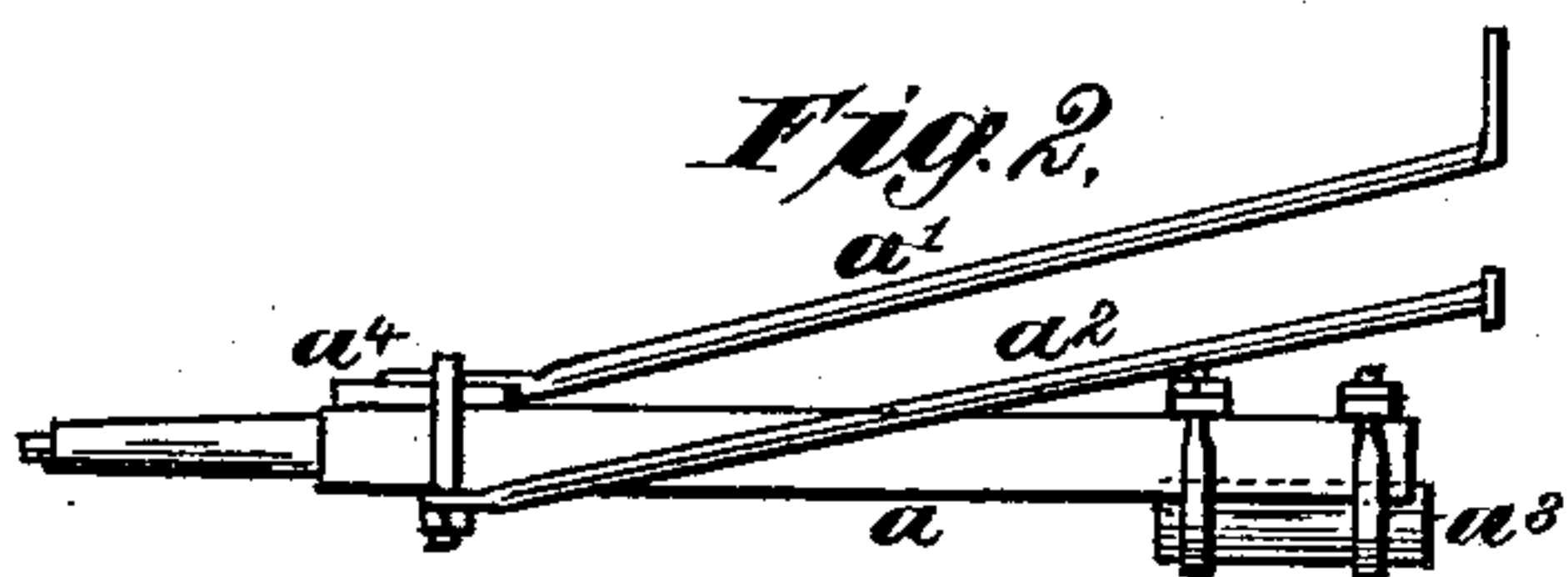
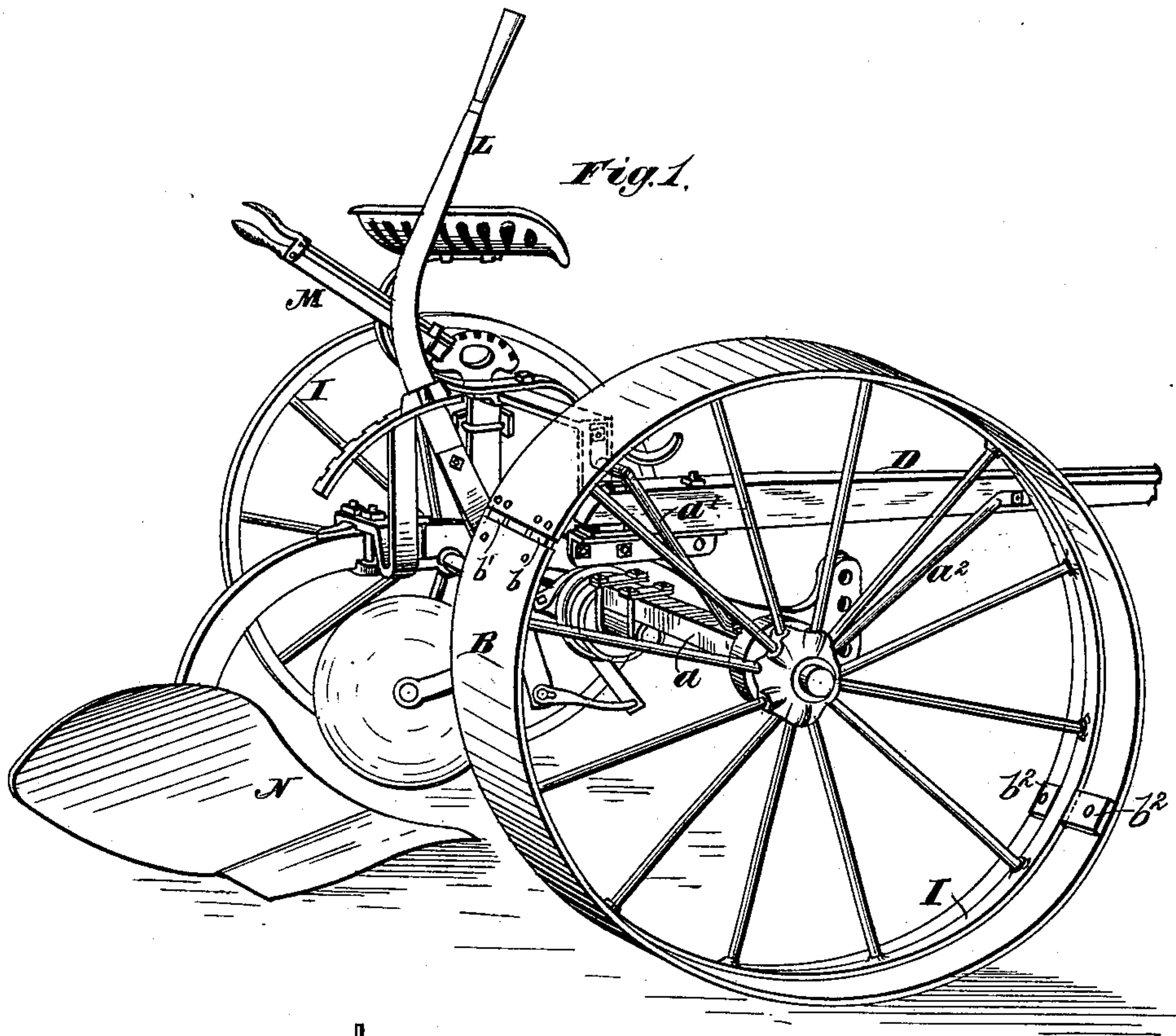


(No Model.)

J. WHEELER.  
WHEEL PLOW.

No. 335,492.

Patented Feb. 2, 1886.



Witnesses.  
Phat Ennett,  
E. H. Dick

Inventor:  
Jesse Wheeler  
By C. H. Watson & Co

Attys



# UNITED STATES PATENT OFFICE.

JESSE WHEELER, OF BROWNSVILLE, MISSOURI, ASSIGNOR OF ONE-HALF  
TO E. S. WEST, OF SAME PLACE.

## WHEEL-PLOW.

SPECIFICATION forming part of Letters Patent No. 335,492, dated February 2, 1886.

Application filed June 18, 1885. Serial No. 169,024. (No model.)

*To all whom it may concern:*

Be it known that I, JESSE WHEELER, of  
Brownsville, in the county of Saline and State  
of Missouri, have invented certain new and  
5 useful Improvements in Cultivators or Wheel-  
Plows; and I do hereby declare that the fol-  
lowing is a full, clear, and exact description  
of the invention, which will enable others  
skilled in the art to which it appertains to make  
10 and use the same, reference being had to the  
accompanying drawings, and to the letters of  
reference marked thereon, which form a part  
of this specification.

This invention has relation to improvements  
15 in cultivators or wheel-plows.

The object of my invention is to provide a  
cultivator or wheel-plow with an extensible  
or adjustable axle, the wheel thereof being  
provided with a band or rim, which can be  
20 thrown out of contact with the furrow for the  
purpose of crushing and pulverizing the soil.

The invention consists in the construction  
and novel arrangement of parts, as will be  
hereinafter described, and particularly pointed  
25 out in the claims.

In the accompanying drawings, Figure 1 is  
a perspective view of my improvements. Fig.  
2 is a detached view of the axle, showing the  
sleeve and braces. Fig. 3 is a sectional view  
30 of one of the wheels with the rim or band at-  
tached thereto. Fig. 4 is a detached view of  
the band or rim.

The letter D represents the tongue of my  
improved cultivator or sulky-plow; N, the  
35 plow; I, the wheels, and L and M the operat-  
ing-levers thereof.

a denotes the extensible or adjustable axle,  
having the braces  $a'$  and  $a''$ , attached by means  
of clips to the outer end of the axle, their  
40 inner ends secured to the frame-work and  
tongue of the sulky in any suitable manner.  
These braces are movable to or from the body  
of the plow by means of slide  $a'$  on the top  
portion of the axle.

45 The letter  $a^3$  designates the thimble or sleeve,  
secured by clips to the under side of the axle,  
whereby the axle is rendered extensible or  
adjustable for the purpose of throwing the  
wheel out of contact with furrow onto the  
50 plowed ground, the object of which will be  
hereinafter explained.

B is the rim or band, made of any suitable  
material and having on its inner surface cleats  
 $b$ ,  $b'$ , and  $b''$ , the former of which are provided  
with elongated slots  $c$ , which engage bolts or 55  
pins  $c'$ , rigidly secured near one edge or meet-  
ing end of the band or rim. These cleats and  
bolts serve the purpose of securing the band  
to the rim of the wheel, and the slots allow  
said band to expand and contract when fitted 60  
to the wheel. The object of this band or rim  
is for the purpose of crushing or pulverizing  
the soil when the axle is extended or adjusted  
to throw the wheel out of the furrow, as here-  
inbefore set forth. 65

I wish it to be understood that I do not  
confine myself to the precise construction of  
my invention as herein described, as I may  
deviate from the same without departing from  
the true spirit thereof. 70

In my construction of an axle for wheel  
plows or cultivators I attach thereto the  
simple means consisting of a sleeve, braces,  
and a slide, whereby said axle is easily ren-  
dered extensible and adjustable to any point 75  
desired; also, in my construction of the band  
for wheel plows or cultivators, I attach said  
band to the rim of a wheel by means of cleats  
secured on the under surface of the band, the  
cleats attached to the meeting ends of the band 80  
provided with elongated slots, whereby said  
band is adapted to expand when being placed  
on the rim or tire of the wheel and contracts  
after being placed thereon.

Having described my invention, what I 85  
claim, and desire to secure by Letters Patent,  
is—

1. A wheel plow or cultivator having an  
axle provided with a sleeve and braces, the  
inner ends of said braces secured to the frame 90  
and tongue of the plow, the outer ends of  
which are connected to the end of the axle by  
means of a clip and slide, whereby said axle  
is extensible and adjustable, as shown and  
described. 95

2. The combination, with a sulky plow or  
cultivator, of the adjustable axle, the band  
on the rim of the wheel, and the sliding  
braces on the axle, as shown and described,  
and for the purpose set forth. 100

3. The combination, with a sulky plow or  
cultivator, of an axle having the sliding

braces connected thereto and to the tongue and frame, a sleeve for extending the axle, and a band on the rim of the wheel provided with slots, bolts, and cleats, as shown and described, and for the purpose set forth.

5 4. The combination, with a wheel plow or cultivator having a wheel provided on its rim or tire with an adjustable broad band or rim, of a supplementary axle; whereby said  
10 wheel, with its band, is rendered adjustable, as

shown and described, and for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JESSE WHEELER.

Witnesses:

W. H. REAVIS,  
E. H. ANDREW.