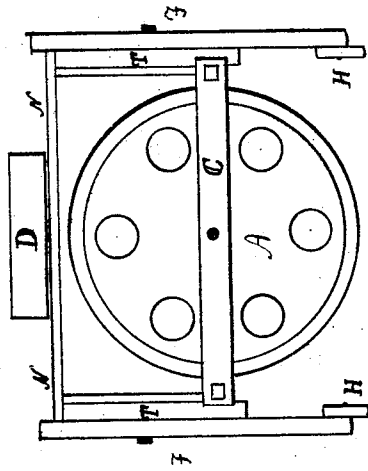


*G. C. Doyle,*

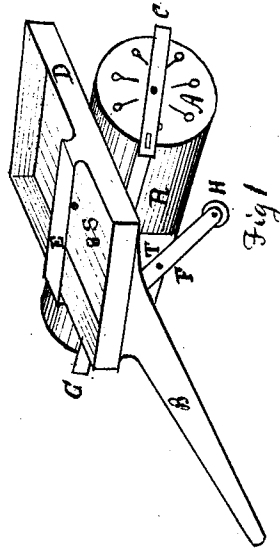
*Land Roller.*

*No. 110,019.*

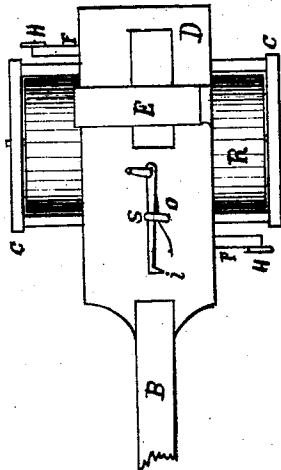
*Patented Dec. 13. 1870.*



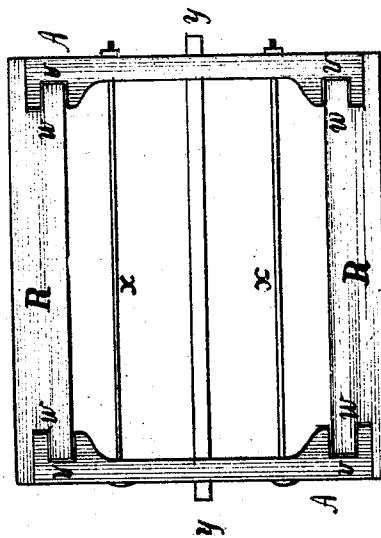
*Fig 2*



*Fig 1*



*Fig 2*



*Fig 3.*

*Wilcox  
A B Richmond  
Per Leisinger*

*G. C. Doyle*

# United States Patent Office.

GEORGE C. DOLPH, OF WEST ANDOVER, OHIO.

Letters Patent No. 110,019, dated December 13, 1870.

## IMPROVEMENT IN LAND-ROLLERS.

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, GEORGE C. DOLPH, of West Andover, of the county of Ashtabula, in the State of Ohio, have invented a new and Improved "Roller" for Rolling Land; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawing and to the letters of reference marked thereon.

Figure 1 is a front perspective view of my roller.

B is the tongue.

D, a strong box, in which stone may be placed, if desired, to increase the weight of the roller.

E, a seat.

C C, a frame, in which the roller is "hung."

The roller is constructed as follows, to wit: (see Figure 3, which is a transverse sectional view of the roller.)

A A are two cast-iron heads, bolted together by bolts *z z* at their outer rim. On the inside are cast two flanges V V V V.

R is a stave of strong timber, with the ends framed so as to fit in the flanges V V V V, as shown at W W W W.

When the heads are filled with staves the bolts *z z* are screwed up tightly, and then the roller is formed.

This roller is then hung in the frame C C, fig. 2.

In using a roller when the driver comes to the side or end of a field and desires to turn his team around, if the roller is turned or swung around on the ground it leaves the ground rough and uneven at the spot where it was turned, scraping the top of the ground in a circle as the roller turns. It is desired to avoid this, and by my invention the tongue is permitted to turn while the roller remains stationary. This is accomplished by the following-described device:

The tongue is constructed of a wide plank or framework, with the box D thereon.

The frame C, in which the roller R is suspended, has two upright pieces of plank or timber framed in them, as shown at T T, fig. 2.

The upper ends of these support a cross-piece, N N; on this cross-piece the tongue and box D rest, with a bolt passing through them bolting them to-

gether in the center, and yet permitting the tongue to turn freely on the cross-piece N N.

F F are two supports, with rollers H H on their lower ends.

These supports are hung on the uprights T T by bolts at T T.

These supports F F project above the cross-piece N N, and reaching the ground when hanging in a perpendicular position, as shown at fig. 2, which is an end view of my invention.

When the tongue B is in the position shown in fig. 1, *i. e.* at right angles to the roller R, the tongue, striking that portion of the supports F F above the cross-piece N N, swings the supports off the ground in the position shown at T F, fig. 1.

When it is desired to turn the team around, as the tongue B swings around parallel with the roller the supports F F drop into the position shown at fig. 2, and thereby prevent the roller from turning over and throwing out the stone in the box D; and when the tongue is reversed, and again at right angles to the roller R, the supports are again lifted from the ground as described.

The tongue B is kept in a position at right angles to the roller by a catch, S O, fig. 2.

The point *i* of this catch passes into the cross-piece N N through a hole in the bottom of the box D.

S, fig. 1, shows the end of the catch passing up through the box D, where it may be pressed down by the foot when it is desired to turn the tongue around.

What I claim as my invention, and desire to secure by Letters Patent of the United States, is as follows, to wit:

1. The supports F F, constructed and operated as described.

2. The combination of the roller R, the supports F F, the catch S, and the tongue B, when constructed as described, for the purposes set forth.

G. C. DOLPH.

Witnesses:

A. B. RICHMOND,  
ROE REISINGER.