(No Model.)

J. S. RUTHERFORD.

DEVICE FOR GRADING AND LEVELING ROADS.

No. 442,549. Patented Dec. 9, 1890.

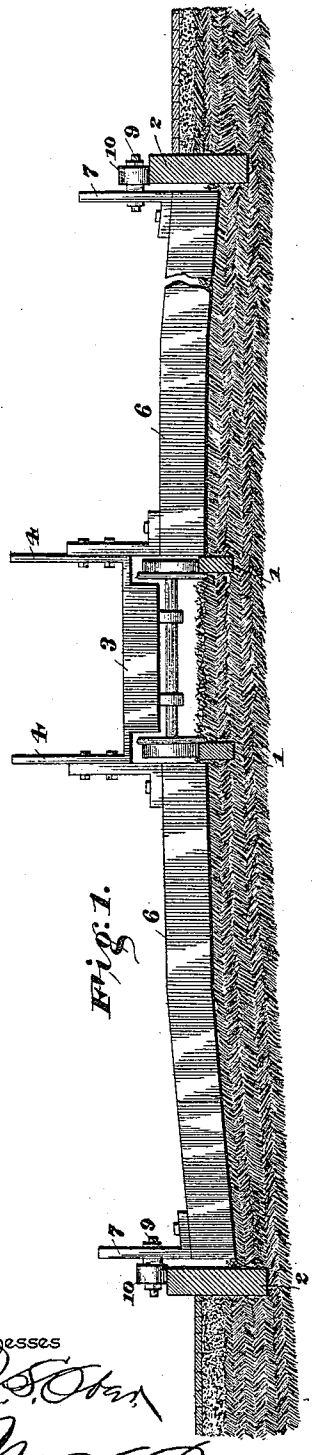


Fig. 1.

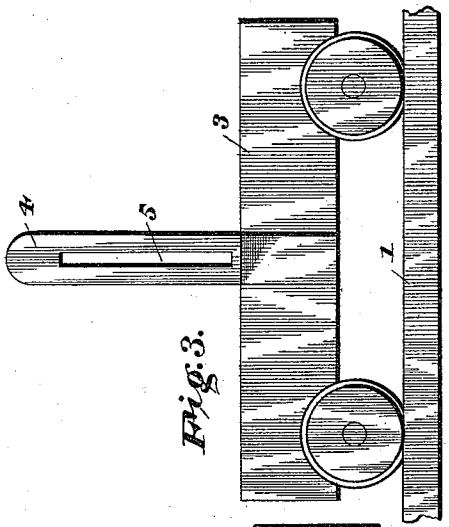


Fig. 3.

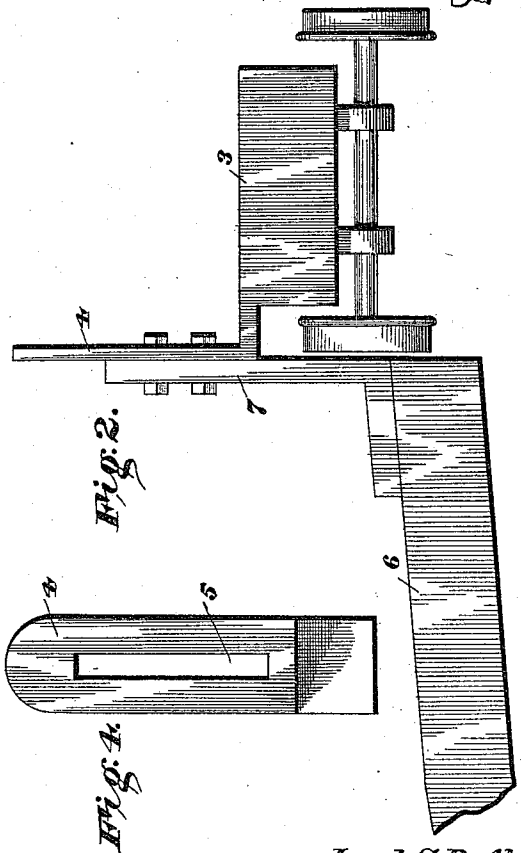


Fig. 2.

Fig. 4.

Witnesses
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By his Attorneys,
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JACOB S. RUTHERFORD, OF BEATRICE, NEBRASKA.

DEVICE FOR GRADING AND LEVELING ROADS.

SPECIFICATION forming part of Letters Patent No. 442,549, dated December 9, 1890.

Application filed August 6, 1890. Serial No. 361,165. (No model.)

To all whom it may concern:

Be it known that I, JACOB S. RUTHERFORD, a citizen of the United States, residing at Beatrice, in the county of Gage and State of Nebraska, have invented a new and useful Device for Grading and Leveling Roads, of which the following is a specification.

This invention relates to devices for grading and leveling roads preparatory to paving; and it has for its object to provide a device of this class which shall be simple in construction and by means of which any desired contour may be given to the roadway.

The invention consists in the improved construction, arrangement, and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, Figure 1 is a view taken transversely and vertically through a roadway upon which my improved device has been mounted for operation. Fig. 2 is a front view, on a larger scale, of the truck, showing one of the wings or templets attached to the same. Fig. 3 is a side elevation of the truck.

Like numerals of reference indicate like parts in all the figures.

Upon the road or street which is to be graded or leveled by my improved apparatus is first laid a single central track 1 and the curbs 2 2.

3 designates a truck adapted to travel upon the central track 1 and provided at its sides with vertical brackets or uprights 4, which are provided with vertical slots 5 for the suitable attachment and adjustment of the wings or templets 6 6, the under edges of which may be beveled or shaped to any desired outline. The outer ends of the templets are provided with vertical brackets or uprights 7, having slots 8, in which are adjustably mounted the spindles or axles 9, carrying rollers 10, which are adapted to travel upon the curbs 2.

In operation my improved leveling device may be drawn by horses, steam, or any desired motive power along the track 1, the templets 6 having been previously adjusted to any desired position. Said templets, in passing over the roadway upon which sand, sawdust, or other suitable material has been previously placed, will level the same smoothly and evenly and place the roadway in good condition for paving.

Having thus described my invention, I claim—

1. In a grading and leveling device, the combination of the central truck, the vertically-slotted uprights at the sides of said truck, and the wings or templets secured adjustably to said slotted uprights, substantially as set forth.

2. In a grading and leveling device, the combination of a truck, the vertically-slotted uprights at opposite sides of the same, the wings or templets secured adjustably to said uprights, and the supporting-rollers at the outer ends of said wings or templets, substantially as set forth.

3. The combination of the truck, the wings or templets secured vertically adjustably to opposite sides of said truck, the vertically-slotted uprights at the outer ends of said wings or templets, and the supporting-rollers mounted adjustably in said slotted uprights, substantially as 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.

JACOB S. RUTHERFORD.

Witnesses:
JOHN E. ABELL,
L. L. SHATTUCK.