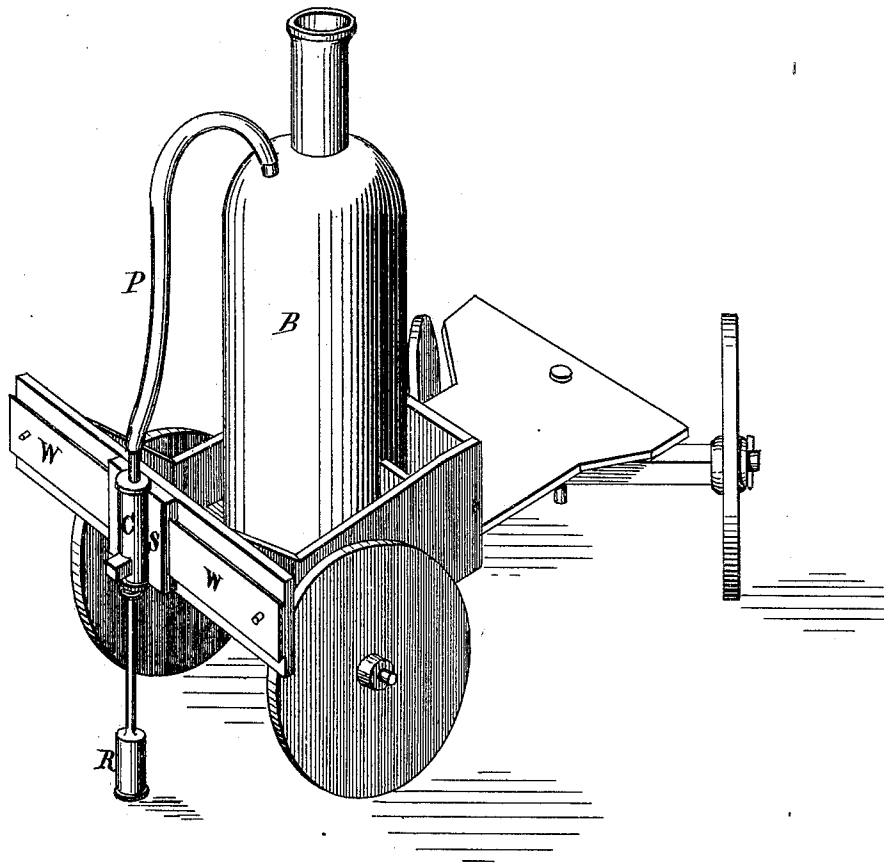


S. JOHNSON.
STEAM ROAD-RAMMER.

No. 174,961.

Patented March 21, 1876.



Witnesses;

Graville Lewis

C. M. Parks-

Inventor

Samuel Johnson,
by his Attorneys,
Stansbury & Munn

UNITED STATES PATENT OFFICE.

SAMUEL JOHNSON, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN STEAM ROAD-RAMMERS.

Specification forming part of Letters Patent No. **174,961**, dated March 21, 1876; application filed March 4, 1876.

To all whom it may concern:

Be it known that I, SAMUEL JOHNSON, of Philadelphia, in the State of Pennsylvania, have invented a new and useful Improvement in Steam-Rammers; and I do hereby declare the following to be a full and correct description of the same, reference being had to the accompanying drawings, in which the figure is a perspective view of my improved steam-rammer complete.

A patent was issued to me September 21, 1875, numbered 167,839, for an invention which consisted in operating a rammer by means of a steam-cylinder placed at the end of a crane mounted and vibrating upon a carriage which supported a boiler and furnace, and was either propelled by steam, drawn by animals, or otherwise moved from place to place. That machine was practically capable of performing the work of ramming only in the arc of a circle of which the crane-arm was the radius, and it was not practicable to make it do the work in a straight line across a pavement without a continual movement of the carriage.

My present improvement is intended to obviate that difficulty; and consists in attaching the steam cylinder which drives the rammer to a slide which moves in guides or ways placed across the rear of the carriage in a straight line parallel to the rear axle-tree.

The improved construction is clearly shown in the drawing, in which B marks a boiler

and furnace mounted on a carriage of any suitable construction; P, a flexible steam-pipe, conveying steam to the steam-cylinder C, which operates the rammer R in the ordinary manner in which a steam-hammer is driven and controlled. The cylinder is attached to a slide, S, which traverses across from side to side on a guide or way, W, placed at the rear of the machine, in a line parallel to the rear axle-tree. The slide is moved at the pleasure of the workman.

It is apparent that with a machine constructed in this way the work of the rammer will be done in a straight line, and in a more convenient manner.

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

The combination, with a suitable carriage supporting a boiler and furnace, of the steam-pipe P, cylinder C, slide S, ways W, and rammer R, all constructed, arranged, and operating substantially in the manner and for the purpose specified.

The above specification of my said invention signed and witnessed, at Philadelphia, this 28th day of February, A. D. 1876.

SAML. JOHNSON.

Witnesses:

WM. BALDERSTON,
WALTER HESTON.