

B. R. TUPPER.

Improvement in Stone-Gatherers.

No. 129,767.

Patented July 23, 1872.

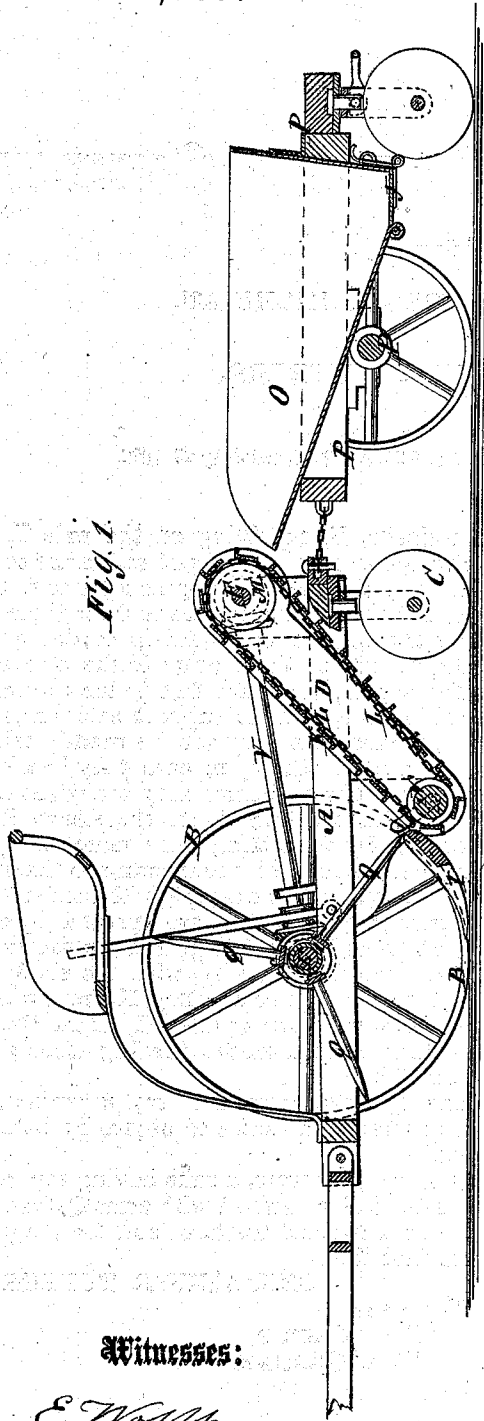


Fig. 1.

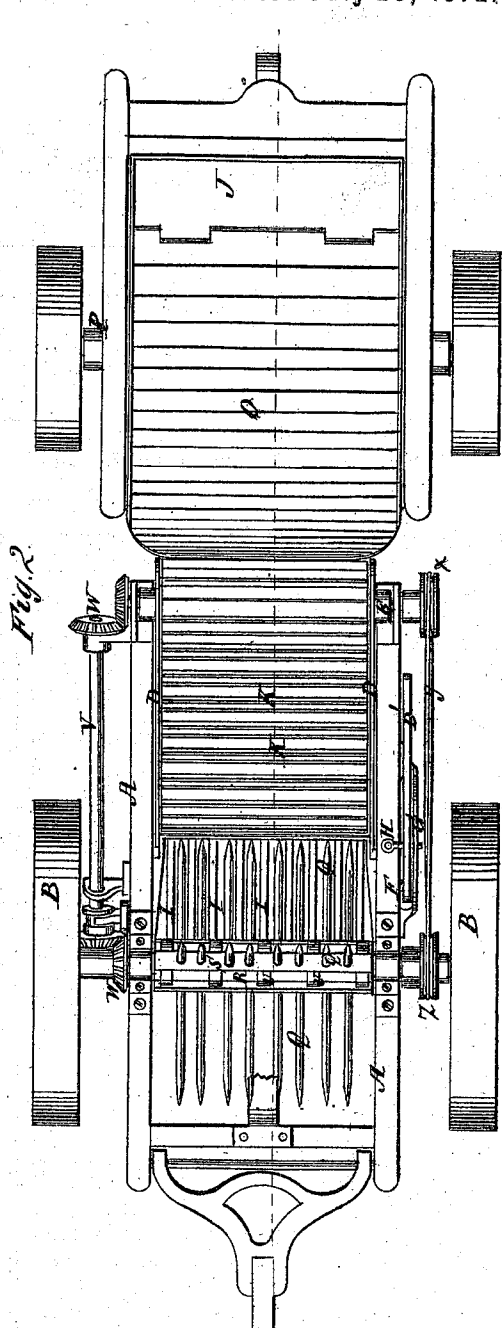


Fig. 2.

Witnesses:

*E. Wolff*  
*N. A. Graham*

Inventor:

*Benj. R. Tupper*

PER

*Wm. J. [Signature]*  
Attorneys.

# UNITED STATES PATENT OFFICE.

BENJAMIN R. TUPPER, OF ODESSA, MICHIGAN.

## IMPROVEMENT IN STONE-GATHERERS.

Specification forming part of Letters Patent No. 129,767, dated July 23, 1872.

Specification describing a new and Improved Machine for Picking up Stones, invented by BENJAMIN R. TUPPER, of Odessa, in the county of Ionia and State of Michigan.

The invention consists in a peculiar mode of combining rake-teeth and revolving arms so as to transfer stones from the surface of the ground to an endless carrier.

In the accompanying drawing, Figure 1 is a plan view of my improved machine, and Fig. 2 is a longitudinal section elevation of the same.

Similar letters of reference indicate corresponding parts.

A is a suitable truck-frame mounted on two large wheels, B, in front of the center, transversely, and a caster-wheel, C, at the rear. D is a long standing frame mounted at the upper end on the axis E, above the rear frame A, so as to oscillate on said axis. At the lower end of this frame it is armed with strong, curved metal teeth I, adapted to run under the stones and gather them upon their upper sides; and above these teeth there is an endless carrier of angle-bars, K, and chains L, operated by a roller or drum, M, on the axis E, and passing over an idle roller, N, at the lower end of said frame, which said carrier receives the stones from the fingers, and carries them up and delivers them to the box O of a truck, P, hitched to the rear of frame, A. To insure the delivery of the stones from the fingers onto the carrier, arms Q are mounted

on a sleeve, R, revolving on the axle T, in such manner that the ends of said arms come against the stones when passing under the axle, and in such manner as to force them up along the fingers, or to aid in so doing. I prefer to attach these arms to the sleeve R by the bars S, which are fast to the collars U of said sleeve, so as to support said arms in such manner that they can be readily taken out to put in others, in case they break or wear out. The said arms may screw entirely through the said bars S into the sleeve R, if preferred, for connecting them more strongly than they would be by connecting to the said bars S only. In this example both these rotating arms and the carrier are operated by one of the wheels B, which is geared, by the shaft V and beveled wheels W, with the shaft E; and this shaft carries a pulley, X, from which a belt, Y, works onto a pulley, Z, on the sleeve R, to turn it, said sleeve turning loosely on the axle T.

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

In stone-gatherers, a rake having top concaved teeth I combined with arms Q, that revolve between said teeth, as and for the purposes described.

BENJAMIN R. TUPPER.

Witnesses:

T. B. MOSHER,  
W. A. GRAHAM.