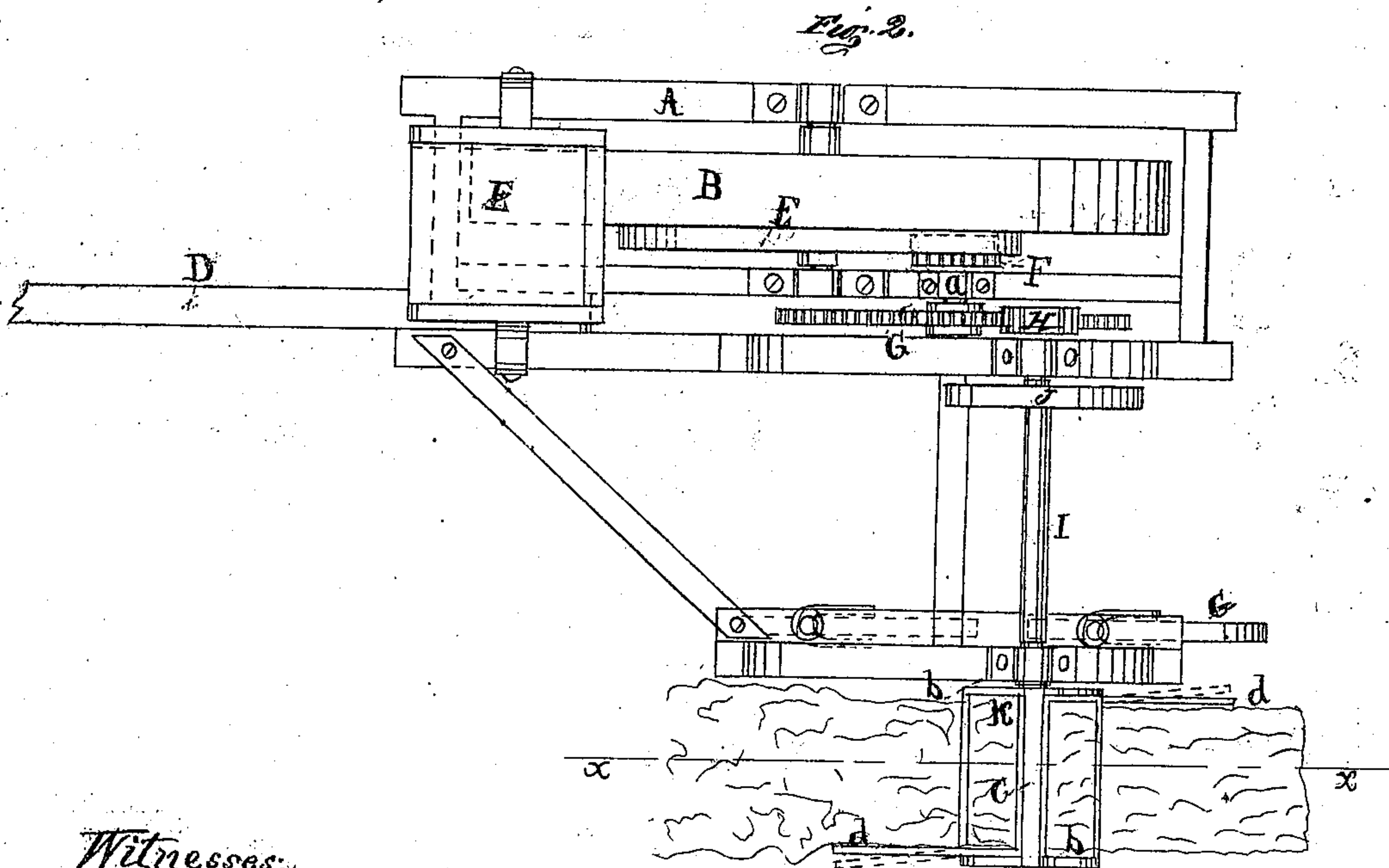
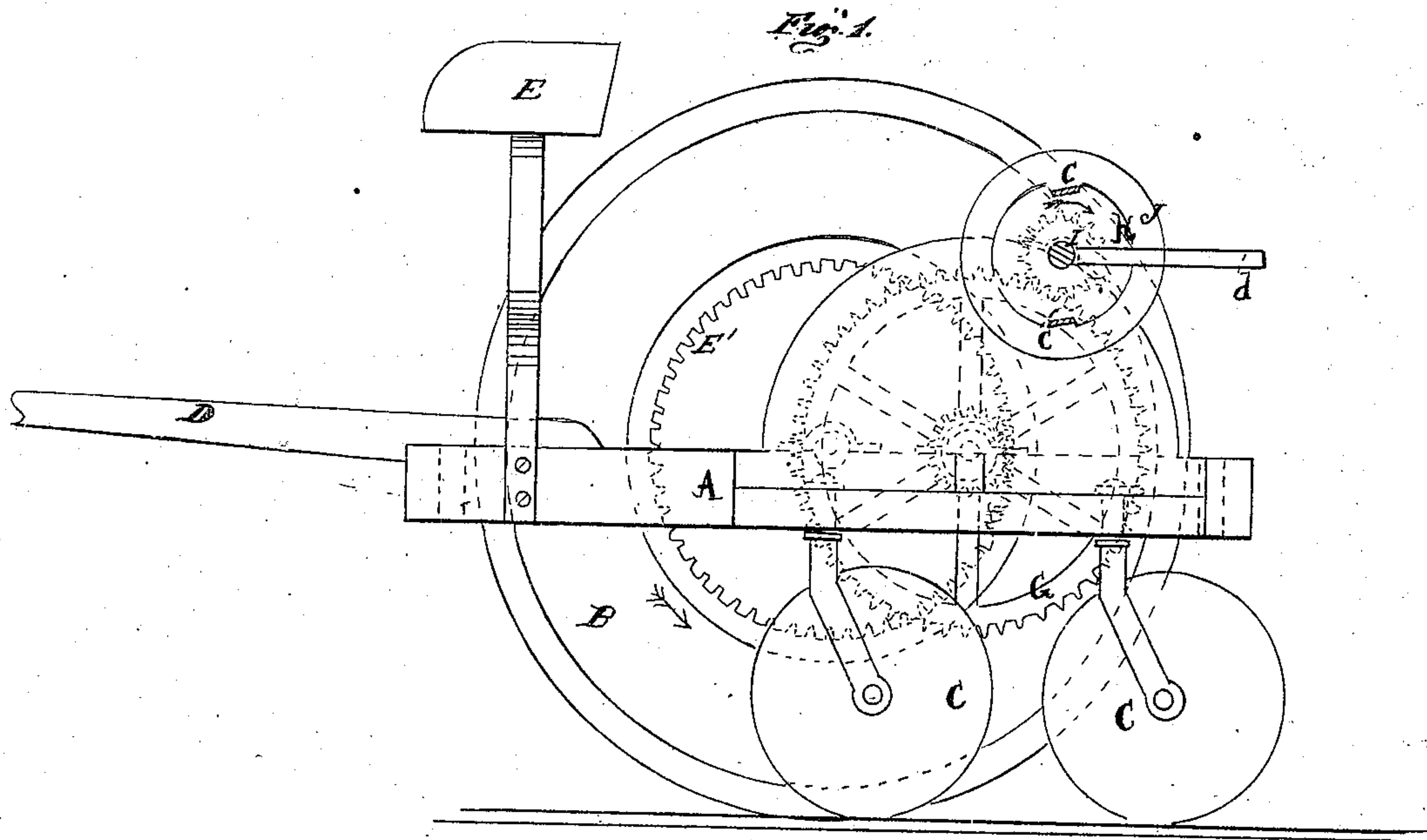


*T. V. Nichols,  
Hedge Trimmer.*

*No. 36420.*

*Patented. Sep. 9. 1862.*



*Witnesses:*

*J. W. Coombs*

*Geo. Reed*

*Inventor.*

*T. V. Nichols*

*per Munn & Co  
attorneys*

# UNITED STATES PATENT OFFICE.

T. V. NICHOLS, OF OLENA, ILLINOIS.

## IMPROVED HEDGE-TRIMMING DEVICE.

Specification forming part of Letters Patent No. 36,420, dated September 9, 1862.

*To all whom it may concern:*

Be it known that I, T. V. NICHOLS, of Olena, in the county of Henderson and State of Illinois, have invented a new and Improved Implement or Device for Trimming Hedges; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side sectional view of my invention, taken in the line *x x*, Fig. 2. Fig. 2 is a plan or top view of the same.

Similar letters of reference indicate corresponding parts in the two figures.

The object of this invention is to obtain a machine by which hedges may be trimmed at the top horizontally, and at each side perpendicularly, or at an inclination, at one operation.

To this end the invention consists in the employment or use of a horizontal cylinder having knives attached to it parallel with its axis, and also provided at each end with a radial projecting knife, said cylinder being placed on a frame mounted on wheels, and operated by the draft movement, as hereinafter fully shown and described.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A represents a frame, which is mounted on one large wheel, B, and two caster-wheels, C C, the former being at the right-hand side of the frame and the latter at the left-hand side. D is the draft-pole, and E the driver's seat. The large wheel B is the driving-wheel of the machine, and it has a toothed rim, E', attached concentrically to its inner side, into which a pinion, F, gears, said pinion being on a small shaft, *a*, on which a toothed wheel, G, is placed. The wheel G gears into a pinion, H, which is on one end of a shaft, I, that is placed horizontally on the upper part of the frame A, and has a fly-wheel, J, upon it, and also a cylinder, K, formed of two circular disks, *b b*, connected

at their peripheries by knives *c*, a proper number of the latter being used. To each disk *b* there is also attached radially a knife, *d*. These knives may be in the same planes as the disks *b b*, or be bent slightly outward from them. (See Fig. 2, in which the outward position of the knives are shown in red outline and shown in the same planes with the disks in tint.) The cylinder K is at the left side of the frame A, and as the machine is drawn along at the side of the hedge the knives *c* will trim or cut its upper surface horizontally, while the knives *d* will trim or cut the upper part of both sides, either vertically or inclined, according to the position of the knives *d*. The trimming is done at one operation and very rapidly, or as fast as the machine is drawn along, the team of course walking moderately. The caster-wheels C C admit of the machine being very readily turned.

It will be seen that the portion of the frame A which supports the shaft I of the cutting-cylinder K should be sufficiently high to admit of the knives working at the top part of the hedge.

The machine may be constructed at a moderate cost, and will save a vast amount of labor in trimming hedges and perform the work in a much more even and perfect manner than it can be done by hand.

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

The horizontal knives *c* of cylinder K for cutting or trimming the top surface of the hedge, in combination with the knives *d d*, attached to the ends or disks *b b* of the cylinder, for trimming the sides of the hedge, said cylinder being connected to a shaft, I, placed on a mounted frame, A, and driven from the wheel B thereof, substantially as described.

T. V. NICHOLS.

Witnesses:

F. M. BRADBURY,  
J. W. HOPPER.