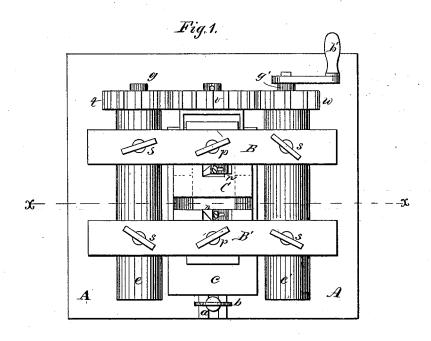
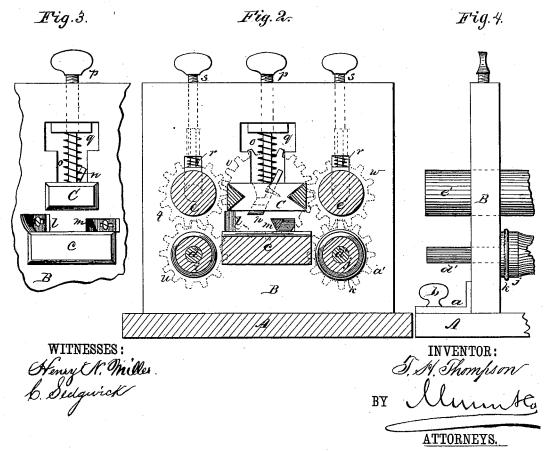
## T. H. THOMPSON.

Trace Trimming and Creasing Machine.

No. 201,208.

Patented March 12, 1878.





## UNITED STATES PATENT OFFICE.

THOMAS H. THOMPSON, OF BENSON, MINNESOTA.

## IMPROVEMENT IN TRACE TRIMMING AND CREASING MACHINES.

Specification forming part of Letters Patent No. 201,208, dated March 12, 1878; application filed January 25, 1878.

To all whom it may concern:

Be it known that I, THOMAS H. THOMPSON, of Benson, in the county of Swift and State of Minnesota, have invented a new and Improved Trace Trimming and Creasing Machine, of which the following is a specification:

Figure 1 is a plan view. Fig. 2 is a vertical section taken on line x x in Fig. 1. Fig. 3 is a detail view of a portion of the side of the machine. Fig. 4 is a partial side elevation.

Similar letters of reference indicate corre-

sponding parts.

The object of my invention is to provide a compact and simple machine for trimming, edging, creasing, and smoothing traces of harness in a single operation.

The invention consists in the combination of adjustable rollers and cutters, as herein-

after described.

Referring to the drawing, A is a bed-piece, to which are attached the fixed support B and the adjustable support B', the latter being provided with a slotted ear, a, through which a binding-screw, b, passes into the bed A. A table, c, is attached to the support B, and passes through a mortise in the movable support B'. On one side of the table a shaft, d, is journaled in both of the supports, and in the same way upon the other side of the table a shaft, d', is journaled. Above the shaft d a roller, e, is placed, which rotates in a journal-box in the movable support B', and is provided with a gudgeon, g, that turns in a box in the stationary support B. A roller, e', is placed above the roller d', and is journaled in a box in the movable support B', and has a gudgeon, g', that is also journaled in a box in the fixed support B. These rollers, as well as shafts dd', project through their boxes in the movable support, so that by moving the support B' the machine may be adapted to traces of different widths.

On the shaft d a plain roller, i, is placed, and on the shaft d' is placed a roller, j, having near each end a narrow rounded flange or circumferential rib, k, which creases the trace as it is rolled through the machine.

In the supports BB'knives l, having straight edges, are secured above the table c, and project beyond the inner face of the supports sufficiently to trim the edges of the trace, knives m, having beveled edges, are also secured in the side pieces BB', for removing the lower corners of the trace. Above the table, and above the knives l m, there is a movable knife-support, C, in each side of which beveled knives n are secured for trimming the upper corners of the trace.

The knife-support C is placed in slots in the side pieces B B', and pressed downward by springs o, that abut against shoulders formed on the screws p. By means of these screws the pressure of the springs is increased, so that the knife-support C is pressed downward with more or less force. The screws p are provided with jam-nuts q, which prevent the screws from becoming accidentally loos-

ened.

The upper half of the journal-boxes of the gudgeons g g' and the rollers e e' are pressed downward by springs r, that abut against the lower end of the screws s, that pass downward in the supports B B'.

The rollers on the shafts d d' are changeable, so that rollers of different length, adapted to traces of different width, may be employed.

The gudgeon g is provided with a spurwheel, t, that meshes into a similar spur-wheel, u, on the shaft d, and takes its motion through an intermediate wheel, v, from the wheel w on the gudgeon g'. The shaft d' is provided with a spur-wheel, a', that meshes into the wheel w.

The gudgeon g' is provided with a crank, b',

by which the machine is operated.

The trace to be trimmed and creased is introduced between the rollers d i, and carried forward over the bed c and between the rollers e' j, being creased by the latter.

By means of my improved machine traces may be trimmed, smoothed, and creased more rapidly, and in a much better manner than the same work can be done by hand.

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

ent—

1. In a trace trimming and creasing machine, the rollers e e' i j, journaled at one end in a fixed support, and journaled at the other end in a movable support, and the knifeholder C and table c, in combination, substantially as herein shown and described.

2. The knife-holder C, carrying knives n, the supports B B', having knives l m, and the

table c, in combination, for trimming the edges and corners of the trace, substantially as herein shown and described.

THOMAS H. THOMPSON.

Witnesses:
O. WENANS,
H. A. ALM, W. A. FOLAND.