

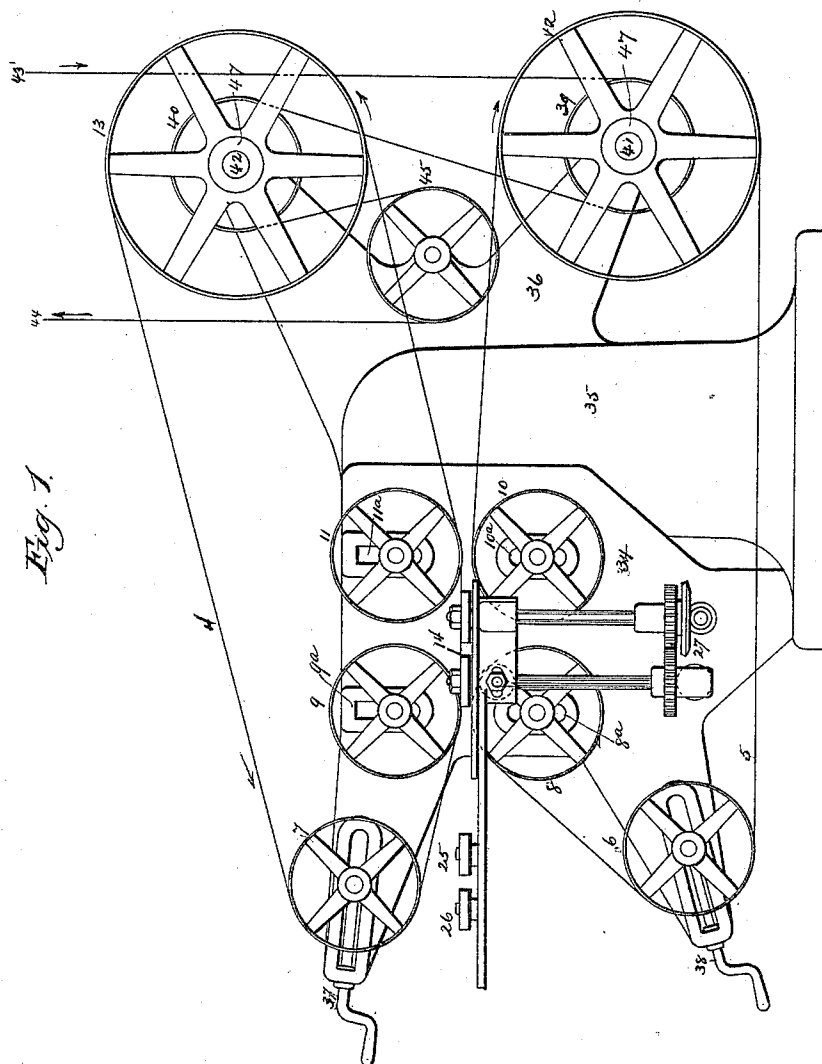
(No Model.)

3 Sheets—Sheet 1.

P. KETTENRING.
FELLY POLISHING MACHINE.

No. 427,695.

Patented May 13, 1890.



Witnesses
R. Ferguson,
G. F. Downing

Inventor
Peter Kettenring
By his Attys.
Sengstack & Sengstack

(No Model.)

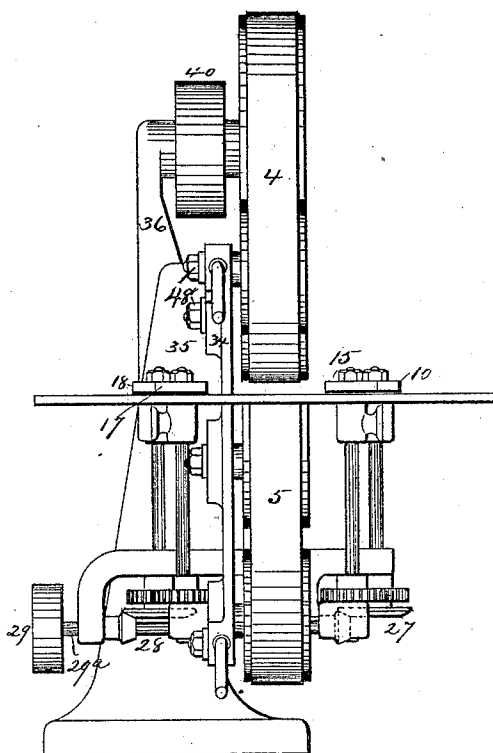
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P. KETTENRING.
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Fig. 2.



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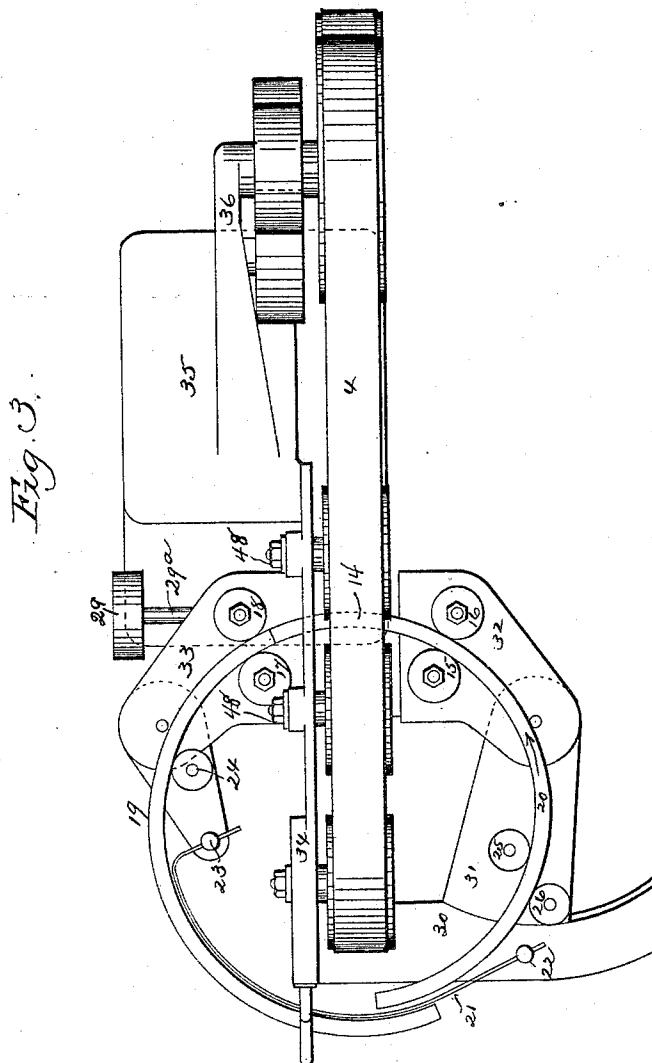
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P. KETTENRING.
VELLY POLISHING MACHINE.

No. 427,695.

Patented May 13, 1890.



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UNITED STATES PATENT OFFICE.

PETER KETTENRING, OF DEFIANCE, OHIO.

FELLY-POLISHING MACHINE.

SPECIFICATION forming part of Letters Patent No. 427,695, dated May 13, 1890.

Application filed January 31, 1890. Serial No. 338,727. (No model.)

To all whom it may concern:

Be it known that I, PETER KETTENRING, of Defiance, in the county of Defiance and State of Ohio, have invented certain new and useful
5 Improvements in Felly-Polishing Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the
10 same.

My invention relates to an improvement in felly-polishing machines, the object being to provide simple mechanism for automatically feeding and polishing fellies; and it consists
15 in endless polishing-belts carried on suitable driving-pulleys, in combination with feed-rollers and certain other novel features of construction and combinations of parts, as will be hereinafter described, and pointed out
20 in the claims.

In the accompanying drawings, Figure 1 is a side elevation of the machine. Fig. 2 is an end elevation, and Fig. 3 is a plan view.

The numerals 4 and 5 represent two sand-
25 belts running around the pulleys 6, 7, 8, 9, 10, 11, 12, and 13, and coming into contact with the felly to be polished at the point 14.

The plan view, Fig. 3, shows the relative positions of the feed-rolls 15, 16, 17, and 18
30 and two pieces of fellies 19 and 20 in transit in the direction indicated by the arrow. A strip of iron or steel 21, held by two binders 22 and 23, serves as a partition to keep the fellies out of each other's way.

Numerals 24, 25, and 26 indicate guide-rolls to keep the felly in the desired path. The feed-rolls 15, 16, 17, and 18 are driven by trains of spur and bevel gearing 27 and 28,
35 driven by the pulley 29, belted from a counter. (Not shown in the drawings.)

The parts 30, 31, 32, and 33 constitute the table of the machine and support the feed-rolls, guide-rolls, and also support the felly while in transit through the machine.

45 The parts 34, 35, and 36 constitute the frame of the machine. 37 and 38 are devices furnished with screws for the purpose of straining the sand-belts to the desired tension.

Pulleys 39 and 40 are fastened onto hol-

low shafts 47 with pulleys 12 and 13, which
50 hollow shafts revolve on pins or bearings 41 and 42. All the pulleys in the machine, excepting the small pulley 29, which is secured to the shaft 29^a, revolve on pins or bearings
55 after the manner of loose pulleys. The pins or bearings of the pulleys 8, 9, 10, and 11 are adjustable in slots 8^a, 9^a, 10^a, and 11^a in the frame 34 through the medium of nuts 48 48, to accommodate various widths of fellies.

43 and 44 represent the path and direction
60 of the driving-belt from the counter above. (Not shown in the drawings.) The idler-pulley 45, running on a pin, is for the purpose of securing the desired direction of motion to the upper sand-belt.

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

1. The combination, with a frame and table, of endless polishing-belts, pulleys over which
70 the latter are carried, means for tightening the belts and changing their planes at the points where they operate upon the surface to be polished, and a device for separating the pieces of the fellies during passage through
75 the machine, substantially as set forth.

2. The combination, with a frame and table, of endless polishing-belts, pulleys over which
80 the latter are carried, means for tightening the belts and changing their planes at the points where they operate upon the surface to be polished, and feed and guide rolls arranged to rotate in planes parallel to the planes which the belts follow, substantially
85 as set forth.

3. The combination, with endless polishing-belts, of devices over which said belts pass, said devices being adjustable, whereby the belts are made to travel in converging, diverging, or parallel planes, substantially as
90 set forth.

4. The combination, with the feed and guide rolls, of a device for separating the pieces of the fellies during passage through the machine, substantially as set forth.

95 5. The combination, with a frame and table, of a pair of endless polishing-belts, pulleys over which the latter are carried, means for

tightening the belts and changing their planes
at the points where they operate upon the sur-
face to be polished, feed-rolls and guide-rolls,
gearing, and a device for separating the pieces
5 of the fellies during passage through the ma-
chine, substantially as set forth.

In testimony whereof I have signed this

specification in the presence of two subscrib-
ing witnesses.

PETER KETTENRING.

Witnesses:

GEO. W. DEATRICK,
C. H. KETTENRING.