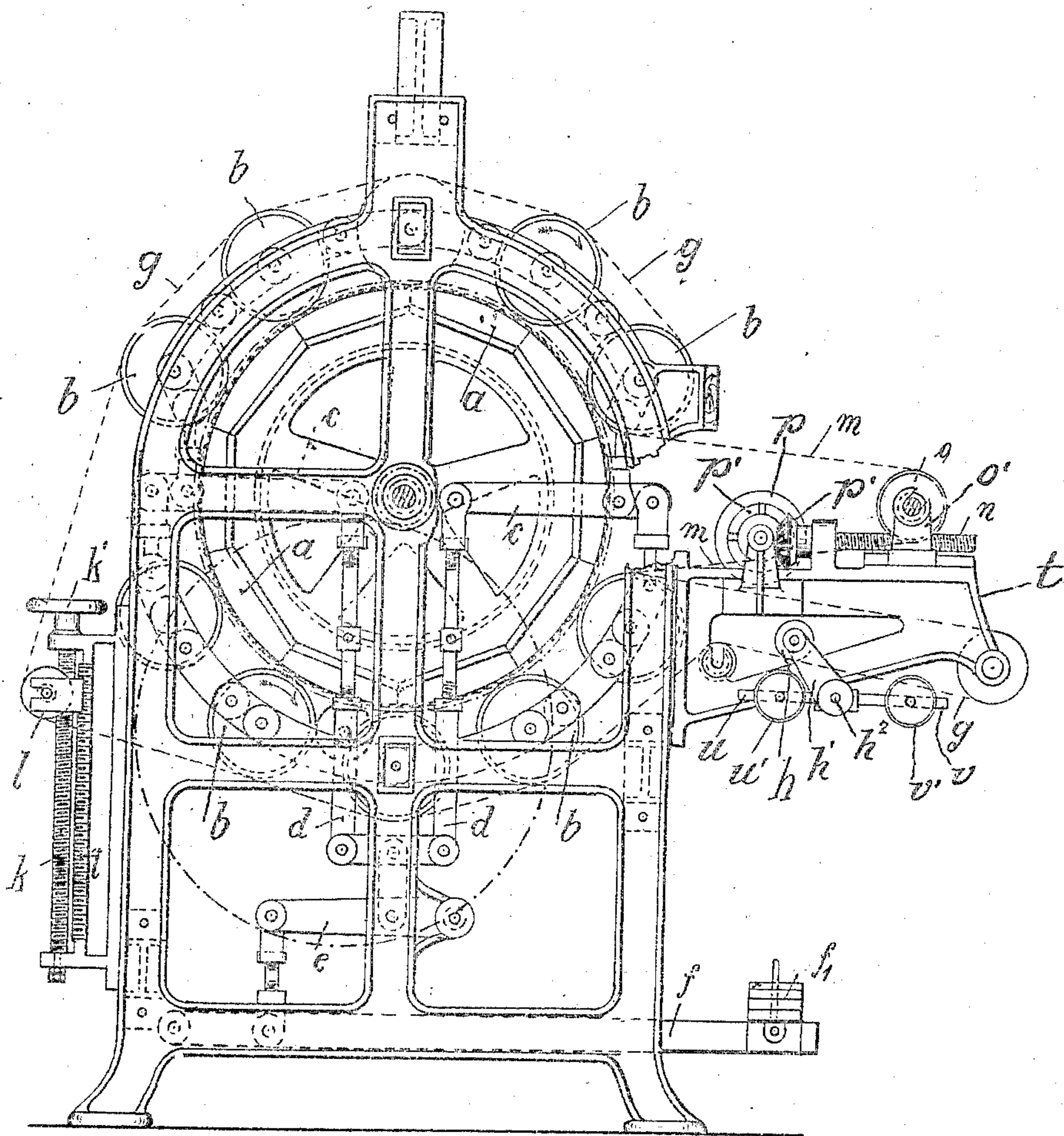


F. W. DENZLER.
MANGLING MACHINE.
APPLICATION FILED MAR. 22, 1906

898,844.

Patented Sept. 15, 1908.



Witnesses:

V. Duane,
h. hatwin.

Inventor:
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Att'y.

UNITED STATES PATENT OFFICE.

FRIEDRICH WILHELM DENZLER, OF ZWICKAU, GERMANY.

MANGLING-MACHINE.

No. 898,844.

Specification of Letters Patent.

Patented Sept. 15, 1908.

Application filed March 22, 1906. Serial No. 307,490.

To all whom it may concern:

Be it known that I, FRIEDRICH WILHELM DENZLER, a subject of the German Emperor, residing at Zwickau, Saxony, in the Empire of Germany, have invented new and useful Improvements in Mangling - Machines, of which the following is a specification.

This invention relates to mangling machines of that class in which a large central rotary drum mounted in a frame is provided at its periphery with a series of pressure rolls and two endless feed webs or aprons which latter receive the washings between them while being carried round with the said rotary drum.

My improvements consist of means for automatically tightening and releasing the tension of the outer web or apron upon the inner web or apron on the central drum so as to suit each kind of clothes or washings and preventing their being torn.

The accompanying drawing is an end-elevation of a mangling machine to which the improvement is applied.

a is the central drum and b are the pressure rolls whose trunnions are secured in the eyes of link-chains extending over the upper and the underside of said drum. The ends of these link-chains are connected to the differential lever mechanism comprising differential arms c , adjustable links d , link connections and pivoted lever e and weighted arm f . The pressure of the rolls upon the periphery of the drum can be adjusted by a sliding weight f^1 . All these parts are known and do not comprise my invention.

g is the outer endless web whose tension is automatically regulated by a rocking tension roll h mounted in arms h^1 fast on a lower rocking shaft h^2 journaled beneath the front

brackets t of the machine, said shaft carrying two levers u, v in opposite direction to each other fitted with adjustable weights u^1, v^1 . Thus, while setting these weights to impart a certain tension to the web g by the pressure of the roll h thereon, said web, is nevertheless enabled to yield sufficiently to accommodate itself to various clothes, thus preventing sliding motion between it and the inner web m and consequent tearing of the clothes. The web g is mechanically adjusted for the general work by the known screw-tension device k at each end of the machine with hand wheel k^1 roller l and graduated scale i . A similar known screw-tension device is provided for the inner web m . This consists of a screw n at each end of the machine, operating a bracket o^1 which carries a tension roller o and being itself operated by a hand-wheel p through the intervention of bevel gear p^1 .

I claim:

In a mangling machine, the combination of a central drum, peripheral pressure rolls and two endless feed webs between said drum, and its rolls and mechanical tension devices for each web; an automatic tension device comprising a roll resting on said outer web, arms for carrying said roll, a rocking shaft to which the arms are fixed beneath the front brackets of the machine, two opposite levers fixed on said rocking shaft, and a shifting weight on each lever as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FRIEDRICH WILHELM DENZLER

Witnesses:

M. L. CREEVEY,
G. MENZEL.