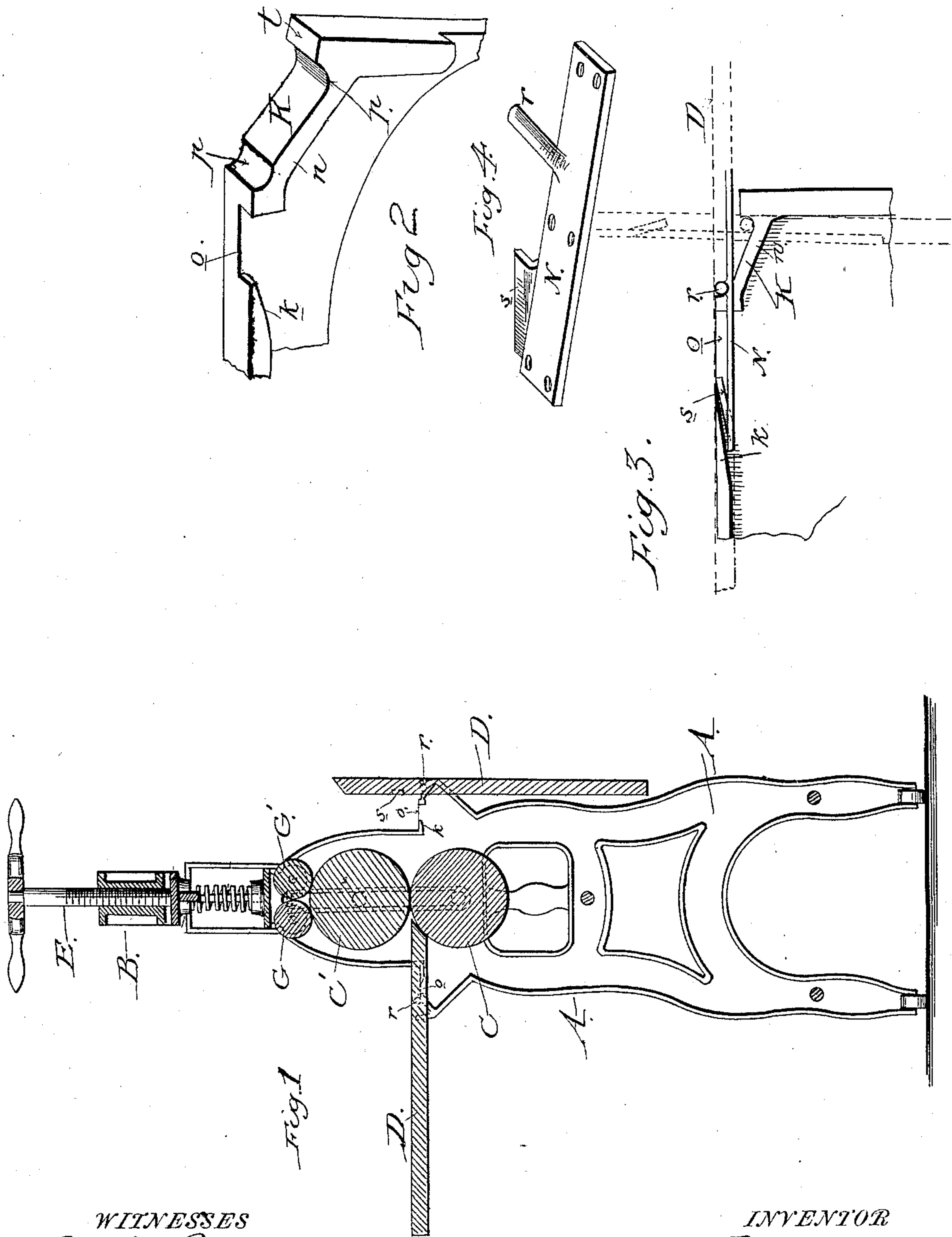


(No Model.)

F. J. ROST.  
MANGLE.

No. 421,144.

Patented Feb. 11, 1890.



WITNESSES  
P. W. Fowler  
W. H. Patterson

INVENTOR  
Franz Julius Rost,  
by A. H. Evans & Co  
His Attorneys



# UNITED STATES PATENT OFFICE.

FRANZ JULIUS ROST, OF MILWAUKEE, WISCONSIN.

## MANGLE.

SPECIFICATION forming part of Letters Patent No. 421,144, dated February 11, 1890.

Application filed October 12, 1888. Serial No. 287,879. (No model.)

*To all whom it may concern:*

Be it known that I, FRANZ JULIUS ROST, a citizen of the United States, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Mangles, of which the following is a full and clear description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a sectional view of a mangle, showing my invention. Figs. 2 to 4, inclusive, represent details to be referred to.

My invention relates to certain new and useful improvements in mangles; and it consists in the improved constructions and combinations of devices which I shall hereinafter fully describe and claim.

To enable others skilled in the art to make and use my invention, I will now describe the same, and indicate the manner in which I carry the same out.

In the said drawings, A represents a suitable frame, within which the operative parts of my mangle are appropriately mounted.

B represents the cross-bar connecting the upper ends of the sides of said frame.

C C' indicate the pressure-rolls.

G G' are small rollers which bear upon the upper pressure-roll.

E is the power-screw, and D is the platform or table upon which the goods are fed.

I employ in my machine extensions or leaves which are removably attached to the main frame, and said extensions are so formed in conjunction with said frame that they may be securely held in a horizontal position when desired, or may be suspended in the manner of a hinged leaf or extension, or be entirely removed from the machine whenever desired. The constructions which permit these important results consist in forming each inner side of the frame with an overhanging flange *n*, having formed therein the opening *o*, the under surface of said flange adjacent to the opening being in the form of an inclined plane *k*, as shown in Fig. 2. The side pieces of the main frame are also formed with inclined portions at the points K, contiguous to the openings *o* in the flanges *n*, and said inclined portions are provided with curved seats *p* at the ends thereof, for a purpose I will now explain.

The leaves or extensions D have secured

to the under sides castings N, which are provided with outwardly-projecting bolts or pins *r* and inclined lugs *s*, the former of which are designed to engage and rest upon the inclined portions K and to engage the seats *p* therein, and the latter (the lugs *s*) are designed to pass under the inclined portion *k* of the projecting flanges *n* to hold the extension in a horizontal position ready for use. In attaching these leaves or extensions to the frame of the machine the inclined lugs *s* are first passed into the openings *o* in the flanges *n*, with the pins or bolts *r* resting in the lower curved seats and against the shoulders *t*, formed by the frame. The leaf is now forced backward, thereby causing the inclined lugs *s* to pass under the inclined portions of the flanges *n*, and also causing the pins or bolts to ride up the inclines K until they become seated in the seats at the top thereof. The leaf is now securely held in a horizontal position, as shown in Fig. 3. The leaf may be readily removed from the machine by pulling it forward, so that the incline K and that upon the lug *s* disengage and the lugs *s* align themselves with the openings *o*, the pins or bolts *r* in the meantime riding down the inclines K until the forward movement of the leaf is arrested by the shoulders *t*. In this position the leaf or leaves may be readily removed from the machine and packed away until again needed.

Power to operate the machine may be transmitted in any suitable manner, not herein necessary to describe or show.

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

In a mangle, the main frame having the inclines K, and having the side portions formed with overhanging flanges *n* and curved seats, said flanges being provided with the openings *o*, in combination with removable extensions or leaves provided with projecting bolts or pins *r*, which rest upon the inclines K, and with inclined lugs *s*, adapted to pass under the inclines K of the flanges *n*, whereby the extensions or leaves are removably held, substantially as herein described.

FRANZ JULIUS ROST.

Witnesses:

JULIUS E. ROEHR,  
BRUNO LASCHÉ.