(No Model.)

A. WILBUR.

FLANGING MACHINE.

No. 306,793. Patented Oct. 21, 1884.

Fig. 1.

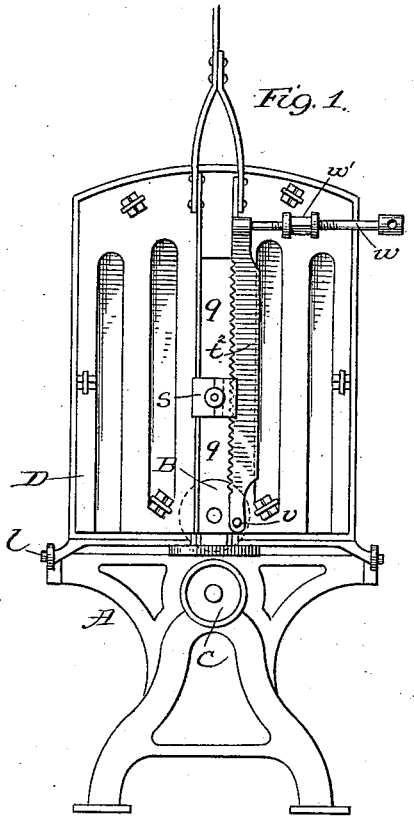
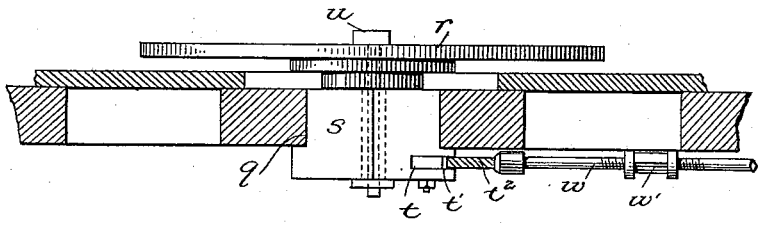


Fig. 2



Attest:
F. L. Middleton
C. A. Joyce

Inventor
Alfred Wilbur
by Joyce & Wilbur
Attys.

UNITED STATES PATENT OFFICE.

ALFRED WILBUR, OF ALLEGHENY CITY, PENNSYLVANIA.

FLANGING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 306,793, dated October 21, 1884.

Application filed January 2, 1884. (No model.)

To all whom it may concern:

Be it known that I, ALFRED WILBUR, of Allegheny City, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Flanging-Machines; and I do hereby declare that the following is a full, clear, and exact description of the same.

My invention relates to an improvement upon the flanging-machine for which I was granted Letters Patent No. 274,872, March 27, 1883.

The essential features of this machine, which is usually termed an "outside" flanging-machine, were a pair of flanging-rollers revolving in a vertical plane, a pivoted table adapted to be raised from a horizontal to a vertical position, and a revolving disk carried by the table and adjustable thereon, to which the boiler-head or other plate to be flanged was attached, so as to revolve with it as the table was raised. The revolving disk or plate carrier was journaled in a sectional box which was adjustable in a slot in the shifting table, and when in proper position was held rigidly in position by a locking-bar pivoted on the table, which entered a slot in the side of the box and forced it against the opposite side of the slot.

The object of my present invention is to obviate a difficulty which has been found to occur in the practical operation of the machine as thus constructed—viz., the slipping of the box and disk in the slot of the table when held only by the frictional contact of the smooth faces of the box and locking-bar; and my invention consists in providing the said box with a sunken corrugated or serrated face-plate, and in corrugating or serrating the bearing-edge of the locking-bar, so as to afford a firm and rigid connection.

I have illustrated my invention in the accompanying drawings, in which Figure 1 is a front elevation of the table and a side view of the machine. Fig. 2 is a horizontal section through the table.

A represents the frame or standard of the machine; B, the upper flanging-roller, and C the lower flanging-roller.

D is the table, pivoted at *l* in bearings in the frame, so as to be capable of adjustment from a horizontal to a vertical position. The table is slotted at *q*, and in this slot slides the adjustable sectional box *s*, in which is journaled the disk *r*. The arbor or journal of the disk *r* is hollow, and through it extends a bolt having a nut, *u*, by means of which the boiler-head or other plate is secured upon the face of the disk.

In the side of one of the sections of the box *s* is a deep slot or recess, in which is secured by bolts a hardened face-plate, *t*, provided with serrations *t'*. The slot in the box is of such depth that the face-plate only partially fills it, leaving a recess into which fits the edge of the locking-bar *t'*. This bar is pivoted to the face of the table at *v*, and is adjusted by means of a screw-bar, *w*, the threaded portion of which extends through a nut, *w'*. The edge of the locking-bar is serrated like that of the face-plate, and when forced against it holds the box, disk, and plate rigidly in position, clamping the box between itself and the opposite edge of the slot *q*. It is impossible for the box to slip, however great the pressure during the operation of flanging, and the efficiency of the machine is by the use of this device greatly increased.

Having thus described my invention, what I claim is—

In a flanging-machine, the combination of the flanging-rolls, the pivoted slotted table, the pivoted plate-carrier, the recessed box having the serrated plate, and the adjustable pivoted locking-bar having a serrated edge, substantially as and for the purpose set forth.

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

ALFRED WILBUR.

Witnesses:
W. H. ANTRIM,
F. C. SMITH.