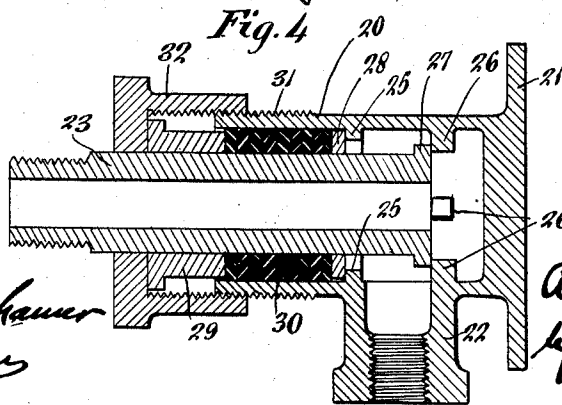
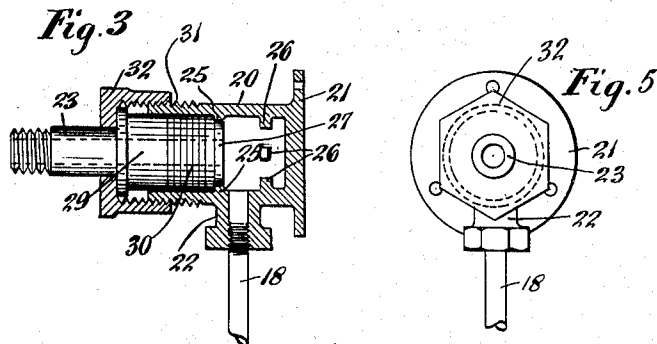
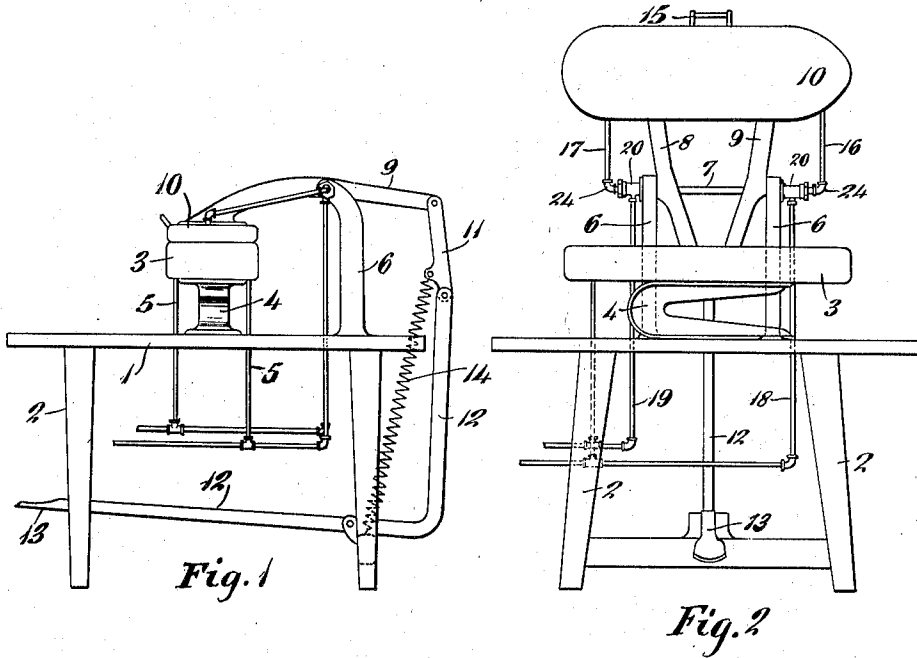


A. LASANCE.
PRESSING MACHINE.
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998,251.

Patented July 18, 1911.



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PRESSING-MACHINE.

998,251.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, AUGUST LASANCE, a citizen of the United States, and a resident of the city of Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Pressing-Machines, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

The object of my invention is to improve the construction for connecting the steam pipes for the pressing plate in steam pressing machines so as to permit the pivotal movement of the pressing plate without subjecting the swivel joints for the steam pipes to the strain ordinarily involved, which causes leakage at the joints and continuous annoyance and trouble.

As ordinarily constructed, the pivoted or swivel joints for the steam pipes connecting with the pressing plate involve the ordinary stuffing joints not constructed for any lateral movement of the parts. It frequently happens that when pressure is applied to the pressing plate, the lack of uniformity of the thickness of the goods under pressure causes the pressing plate to tip or shift in its position, and with an ordinary swivel joint for the steam pipes, the effect of this is to subject the joints to lateral strain, to weaken them and cause leakage.

My invention, therefore, consists of that certain novel joint for the steam pipes as hereinafter set forth and claimed, in which lateral as well as rotary movement is provided for the joints.

In the drawings,—Figure 1 is a side elevation of a steam pressing machine embodying my improvement, with the presser plate in pressing position. Fig. 2 is a front elevation of the same, with the presser plate raised. Fig. 3 is a central longitudinal section of one of the steam pipe joints, showing the pipes in one lateral position. Fig. 4 is a similar section, showing the pipes in another lateral position. Fig. 5 is a front elevation of the joint as shown in Fig. 3.

The pressing machine is mounted on a suitable table 1, provided with legs 2, 2, and the steam chest or heating bed 3 is mounted on the table 1 by the goose-neck casting 4. Steam for heating the garments on the steam chest is supplied through the circulating pipes 5, 5, in the usual way. At the rear of the steam chest are the two standards 6,

6, on the upper ends of which, in suitable bearings, are pivotally mounted on the shaft or rod 7, the lever arms 8, 9, upon the forward ends of which the steam pressing plate 10 is secured. The rear ends of these levers 8, 9, are pivotally connected by the link 11 to the bell crank foot lever 12, which is pivotally mounted in a suitable casting at the rear of the framework, and carries a foot piece 13 at its forward end. A coiled spring 14 is connected to the link 11 and to the framework near the base, which spring normally tends to hold the pressing plate in upright position as shown in Fig. 2.

When the clothes which are to be pressed are placed on the heating bed 3, the presser plate 10 is brought down by the handle 15 into the position shown in Fig. 1, and then to give the proper pressure, the operator presses on the bell crank lever 12, which tends to raise the outer ends of the lever arms 8, 9, and depress the pressing plate on to the goods.

The foregoing construction is a construction now in use and forms no part of my present invention.

It is desirable to supply steam to the presser plate 10, and this plate is therefore hollow, and a circulation of steam is provided through the inlet pipe 16 and the outlet pipe 17, with which pipes connection is made by the supply pipe 18 and return pipe 19. As the pressing plate 10 is pivotally mounted and is to be brought rapidly from vertical to horizontal position, it is necessary to provide the swivel joint between the pipes 16 and 18 on the one side and 17 and 19 on the other. As already intimated, however, inasmuch as the clothes to be pressed are apt to make an uneven surface upon the steam bed 3, it is desirable to provide not only a pivotal connection for the pipes, but also a connection in which the pipes can shift laterally. In order to accomplish this, I provide as follows: 20 is a T-coupling, or more properly an L-coupling, provided with a flange 21, for securing same by screws or otherwise to the upper end of each of the standards 6. This coupling is provided with a branch extension 22, screw threaded to receive the upper end of the supply or return pipe 18 or 19, and the main body of the coupling is provided with a stuffing box construction for the reception of the pipe 23, with the end of which by the elbow 24 connection is made with the pipe 16 or 17.

An annular flange 25 is formed on the inside of the coupling 20, and also lugs 26, 26, are formed on the inside on the opposite side of the branch connection 22. These 5 lugs are higher than the flange 25, and the inner end of the tube 23 is provided with a flange 27 which will pass the flange 25, but will butt against the lugs 26.

Mounted loosely on the tube 23 is the ring 10 28, and 29 is a gland also mounted loosely on the tube 23, and between the base of this gland and the ring 28, the packing 30 of any suitable material is placed. The coupling 20 is screw threaded exteriorly at 31 15 to receive the interiorly threaded stuffing box nut or cap 32. The tightening of this nut or cap forces the gland 29 down upon the packing 30 and ring 28 which abuts against the flange 25, so as to make a steam 20 tight joint. With this construction, however, the tube 23 can not only rotate in the coupling, but the tube can move laterally within the coupling between the packing ring 28 and lugs 26, and in this way suffi- 25 cient play is provided for the unequal pressure on the presser plate so that the coupling is freed from strain and consequent leakage.

Having thus described my invention, what 30 I claim as new and desire to secure by Letters Patent, is:—

1. In a pressing machine, the combination with a fixed heating chest for the goods to be pressed, and a pivotally mounted press-

ing plate, of an inlet and a return steam 35 pipe for the passage of steam to and from the pressing plate, and a swivel joint for each of said pipes interposed between sections of said pipes, comprising a coupling 40 with fixed connection with one section, and a rotary and a laterally movable connection with the other section to permit both rotary and lateral movement of the pressing plate.

2. In a pressing machine, the combination 45 with a fixed heating chest for the goods to be pressed, and a pivotally mounted pressing plate, of an inlet and a return steam pipe for the passage of steam to and from the pressing plate, and a swivel joint for 50 each of said pipes interposed between sections of said pipes, comprising a coupling with fixed connection with one section, and a rotary and a laterally movable pipe, connected with the other section, a stuffing box 55 for said pipe and coupling, comprising a ring and a gland with packing loosely mounted on the pipe, an internal flange in the coupling, a stuffing box nut on the coupling to tighten the packing against the internal flange, a flange on the inner end 60 of the pipe of less diameter than the internal flange of the coupling to permit the pipe to move laterally, and internal lugs on the coupling to limit the movement of the pipe.

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