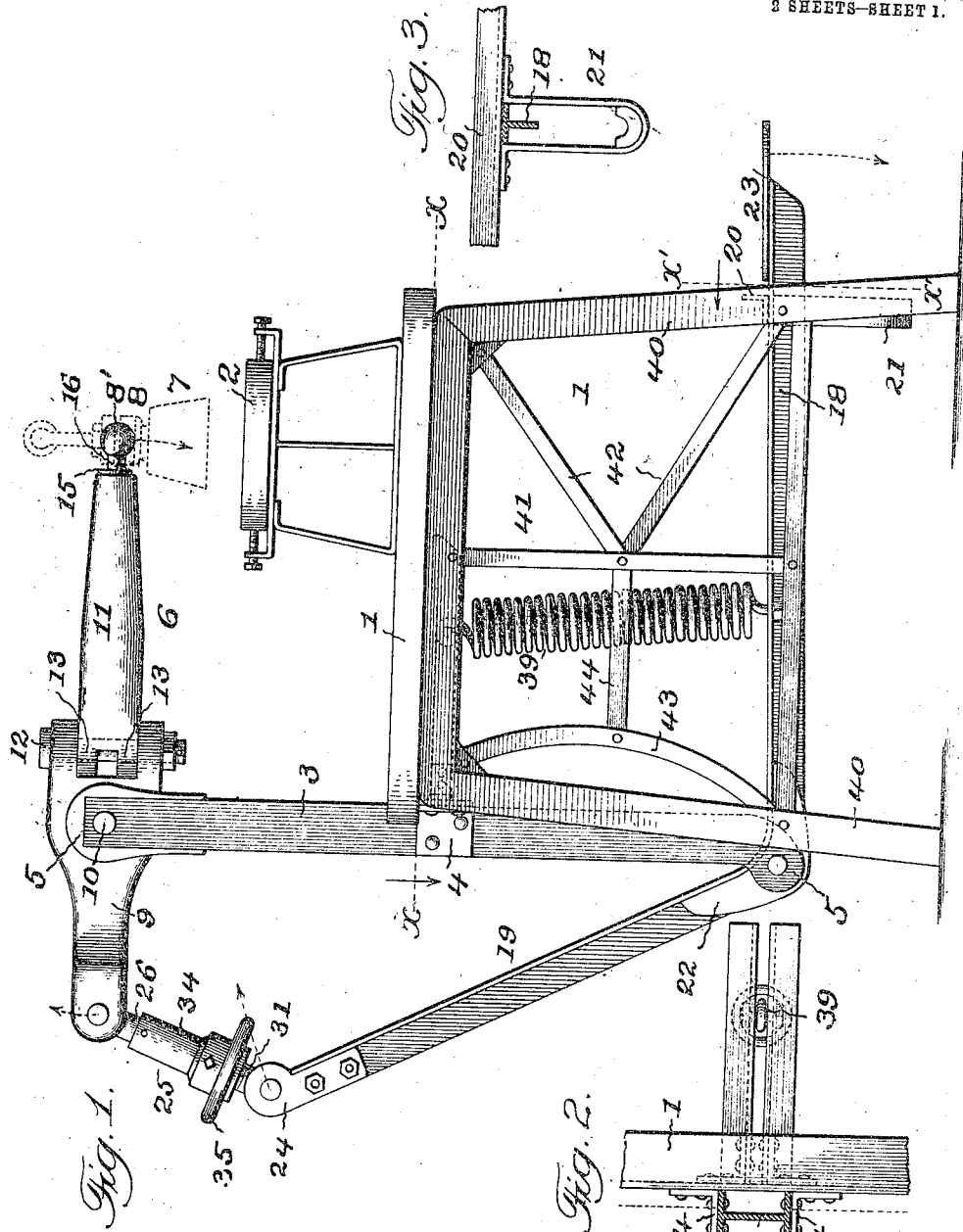


981,422.

Patented Jan. 10, 1911.
2 SHEETS—SHEET 1.



Attest:
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981,422.

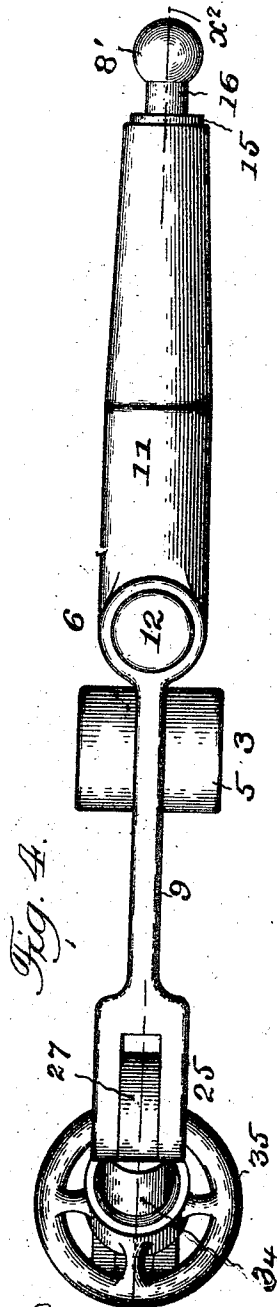


Fig. 4.

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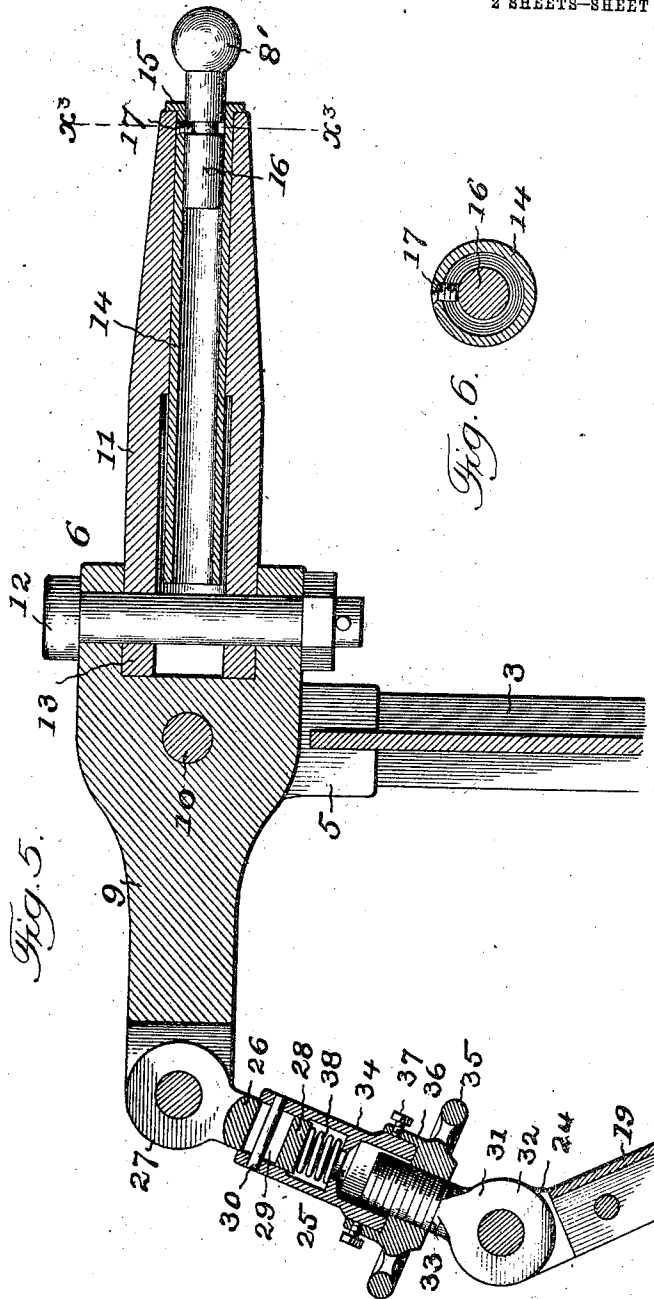


Fig. 5.



Fig. 6.

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UNITED STATES PATENT OFFICE

JOSEPH HILL AND KALMAN KOSÁC, OF CHICAGO, ILLINOIS.

TAILOR'S PRESS.

981,422.

Specification of Letters Patent.

Patented Jan. 10, 1911.

Application filed June 13, 1908. Serial No. 438,255.

To all whom it may concern:

Be it known that we, JOSEPH HILL, a citizen of the United States of America, and KALMAN KOSÁC, a subject of the King of Hungary, and both residents of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Tailors' Presses, of which the following is a specification.

This invention relates to that class of garment pressing machines, employed by tailors, and in which a heated pressing or smoothing iron is carried by an overhanging crane and has universal movement in a horizontal plane over a fixed table upon which is supported a garment the seams and other like parts of which are to be pressed. And the present improvement has for its object to provide a simple and efficient structural arrangement and combination of parts whereby the pressing of the garment seams and the like is accomplished in a very ready and effective manner, and with the exertion of a minimum amount of effort on the part of the operator, all as will hereinafter more fully appear.

In the accompanying drawings: Figure 1, is an end elevation. Fig. 2, is a detail horizontal section on line $x-x$, Fig. 1. Fig. 3, is a detail longitudinal section on line $x'-x'$ Fig. 1. Fig. 4, is an enlarged plan of the crane arm and accessories. Fig. 5, is a detail vertical section on line x^2-x^2 , Fig. 4. Fig. 6, is a detail section on line x^3-x^3 , Fig. 5.

Similar numerals of reference indicate like parts in the several views.

Referring to the drawings, 1 represents the supporting stand, comprising a horizontal top and a plurality of supporting legs, and upon which the usual ironing board 2, of an elongated oval form, is supported in the raised position shown in Fig. 1.

3 is a vertical fulcrum member secured centrally to the rear side of the stand 1, by angle brackets 4, with one portion extending above the horizontal top of the stand to afford a fulcrum for the crane hereinafter described, while the other portion of said fulcrum member extends below such stand top to provide a fulcrum for the operating treadle hereinafter described. Such fulcrum member is formed of structural metal having an I form in cross section, and to which pivot knuckles 5 are fixedly secured at the respective ends. By such construc-

tion a very rigid, durable and economical fulcrum member is provided to withstand too excessive lateral strain imposed thereon in actual use.

6 is an overhanging crane pivoted in the upper knuckle 5 of the fulcrum member aforesaid, and connected at its rear end to the upper toggle member of the operating mechanism hereinafter described. At its forward end said crane carries the usual pressing or smoothing iron 7, which is connected to the forward end of said crane by a universal joint 8, preferably of the ball and socket form shown in Fig. 1. In the present construction said crane is of a duplex formation and comprises a main lever portion 9 having pivotal connection with the fixed fulcrum member 3 by a horizontal pivot pin 10. Immediately adjacent to such fulcrum connection said lever portion is formed with a pair of pivot jaws or knuckles between which the crane arm 11 carrying the smoothing iron 7 aforesaid, is pivoted by a vertical pivot pin 12 to have independent swinging motion in a horizontal plane.

The crane arm 11 above referred to in turn comprises a rear tubular stock having pivot knuckles 13 for the passage of the pivot pin 12 aforesaid; a hollow cylindrical intermediate portion 14 having longitudinal movement in the cylindrical bore of the aforesaid tubular stock, and having a stop collar 15 at its forward end to restrict the inward movement of said intermediate member in the bore of the tubular stock aforesaid, and an outer cylindrical arbor fitting the circular bore of the intermediate member 14 and capable of a turning movement therein, but held from independent longitudinal movement by a confining screw or stud 17 engaging in a peripheral groove in said arbor 16, as shown in Figs. 5 and 6. At its outer end said arbor 16 carries the ball portion 8' of the ball and socket connection heretofore referred to, and by means of which the smoothing iron 7 is attached to the crane 6 of the apparatus.

18 is the operating treadle, pivoted in the lower end of the fulcrum member 3, and formed with an angularly arranged arm 19 which constitutes the lower member of the toggle portion of the operating mechanism hereinafter described.

20 is a longitudinal rail on the stand 1, adapted to limit the upward swing of the operating treadle aforesaid.

21 is a U shaped stirrup secured to the rail 20, and embracing the operating treadle, to limit the downward movement of the same. The operating treadle and its toggle arm extension are formed of a length of structural T metal, bent to the required shape, and provided with reinforcing blocks 22 at its point of pivotal connection with the fulcrum member 3 aforesaid; with a foot plate 23 at its forward end, and with eye blocks 24 at the upper end of its toggle arm 19 for pivotal connection with the upper and companion toggle member.

25 is the upper toggle member, arranged between the upper end of the lower toggle member 19 and the rear end of the aforesaid lever portion 9 of the crane 2, and having a detail construction as follows:

26 is an upper end member formed with a pivot eye 27 having pivotal engagement by a suitable pivot pin with pivot knuckles on the rear end of the lever portion of the crane, and with a cylindrical shank 28 adapted to fit the bore of the intermediate member hereinafter described, and having limited longitudinal movement therein by means of an elongated slot 29 in said shank and a transverse pin 30 carried by said intermediate member.

31 is a lower end member formed with a pivot eye 32 having pivotal engagement by a suitable pivot pin with the pivot eye blocks 24 on the upper end of the toggle arm 19 before described, and with a screw threaded shank 33 adapted for engagement with the correspondingly formed bore of the hub of an adjusting hand wheel carried by the intermediate member, as hereinafter described.

34 is the intermediate member above referred to, and which is of a tubular form adapted to receive the shanks 28 and 33 of the end members aforesaid.

35 is the adjusting hand wheel having bearing on the lower end of aforesaid intermediate member by means of a sleeve extension 36 of its hub, and which sleeve extension 36 forms a bearing socket for the lower end of said intermediate member as shown in Fig. 5, and is held in proper position by set screws 37. The hub of said wheel has a screw-threaded bore for engagement with the screw threaded shank 33, to afford a means for effecting a longitudinal extension or contraction of the toggle member to suit the particular class of work operated on.

38 is a spring cushion interposed between the lower end of the upper member 26 aforesaid, and an abutment shoulder formed in the interior of the tubular intermediate member 34, and adapted to provide a yield-

ing connection between the toggle parts so that the pressure exerted by the toggle mechanism in actual use will never exceed the resistance of said spring cushion to compression. As so arranged very effective pressing and smoothing actions are attained with a minimum exertion of force on the part of the operator.

39 is a coiled spring adapted to raise the operating treadle 18 into its raised position ready for operation by the foot of the operator.

In the preferred form of the present invention, the supporting stand 1 will comprise the usual horizontal table top, and a supporting frame formed by a pair of wrought metal legs 40 having an inverted U shape, which legs are connected together by longitudinal wrought metal rails, and are braced and connected by intermediate vertical struts 41, diagonal braces 42, segmental braces 43 and horizontal struts 44, as illustrated in Fig. 1.

Having thus fully described our said invention what we claim as new and desire to secure by Letters Patent, is:—

The combination in a tailor's press, of a table, a pressing board secured in a raised position on said table, a vertical fulcrum member attached centrally to the rear of the table and projecting above and below the same, an overhanging extensible crane pivoted to the upper end of the fulcrum member and having a rearwardly projecting arm, a pressing iron carried on the forward end of said crane, a treadle lever pivoted to the lower end of the fulcrum member, an arm on the rear of the treadle lever in angular relation to the same and constituting the lower member of a toggle, and an upper toggle member pivotally connected to the lower toggle member aforesaid and to the rear arm of the crane, such upper toggle member comprising end sections having pivot eyes and cylindrical shanks one of which is screw-threaded, an intermediate section receiving said shanks, a pin and elongated slot forming a loose connection between the intermediate section and one of said shanks, and an adjusting hub engaging the screw-threaded shank aforesaid and having bearing upon the intermediate section.

Witness our hands at Chicago, Illinois this 8th day of June, 1908.

JOSEPH HILL.
KALMAN KOSÁC.

In presence of—
ROBERT BURNS,
MATIAS SKULTELY.