

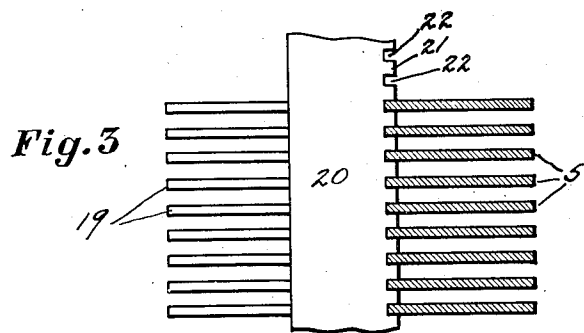
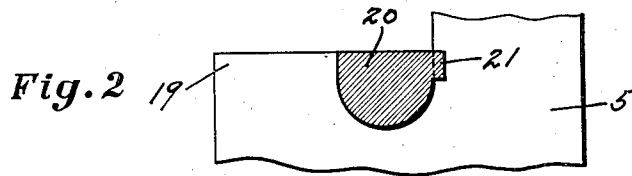
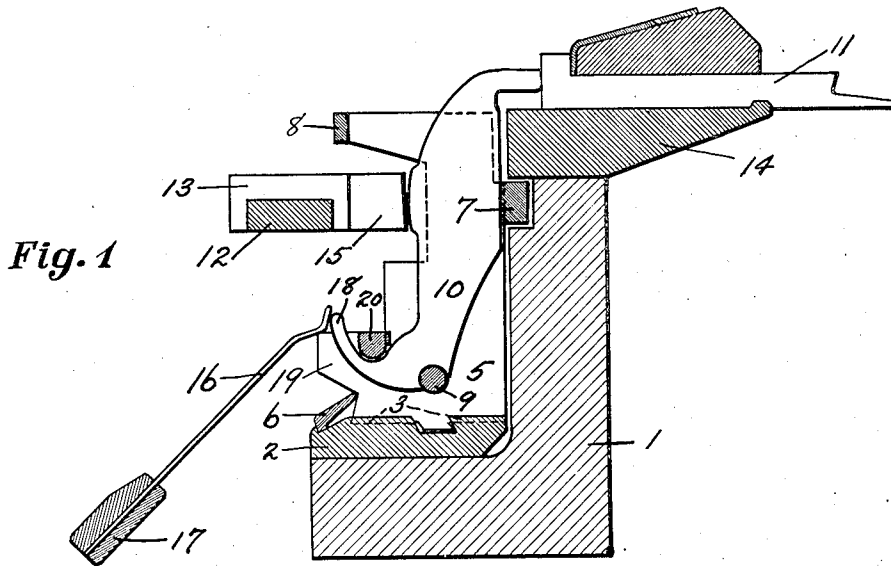
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JACKHEAD

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JACKHEAD

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1 Claim. (Cl. 66—110)

This invention relates to straight knitting machines adapted to produce a full fashioned stocking fabric; and it more particularly relates to the sectional jack-head units of such machines, the main object being to provide means whereby the jack walls or separation plates are held against bending under the action of the slur cam on the jacks and the binding of jacks by the jack walls and the displacement of the jack spring from the jack are prevented. Other objects and advantages will be apparent from the following description and accompanying drawing illustrating a preferred construction.

In the drawing—

Fig. 1 is a vertical cross section of one of the machine sections constructed in accordance with this invention;

Fig. 2 is a detail view drawn to a larger scale of a part shown in Fig. 1; and

Fig. 3 is a plan view of the parts shown in Fig. 2.

The type of knitting machine to which this invention relates is commonly made up of a considerable number of knitting sections having a common center bed 1 extending lengthwise of the machine. Adjustably secured to the center bed 1 is a base plate 2 which is provided for each machine section and which is slotted at 3 to form guides for the lower portions of the jack walls or partition plates 5. A clamp 6 engaging the lower portions of the jack walls 5 secure them in position in the slots 3 and slotted spacer bars 7 and 8 aid in positioning the upper portions of the jack walls 5.

The usual jack axle 9 extending through openings in the jack walls 5 and secured at its ends in the machine frame serves as a fulcrum for the jacks 10 which operate sinkers 11 in the sinker head 14 mounted on the center bed 1. The jacks 10 are operated by the usual slur cam 13 slidably mounted on the guide 12 and having a cam face 15 which engages with the jacks 10. Cooperating with the slur cam 13 in the control of the jacks 10 are the springs 16 mounted in the spring bar 17. The springs 16 engage with extensions 18 of the jacks 10 and are guided in engaging position by extensions or projections 19 of the jack walls 5. To secure the jacks 10 in

position there is provided a rod 20, curved at its bottom as shown in Figs. 1 and 2 to fit correspondingly shaped recesses in the jacks 10 and jack walls 5. The rod 20 is formed with a projection 21 which extends throughout the length of the rod and is slotted at regular intervals, as at 22, to receive the jack walls 5.

In the operation of the machine the movement of the slur cam 13 to operate the jacks 10 tends to displace the jacks 10 laterally causing the jacks to bear against the adjacent jack walls 5. This pressure of the jacks 10 against the jack walls 5 causes the jack walls 5 to be bent and the outer edges to be deflected, especially in fine gauge machines, unless some means are provided for preventing it. Bending of the jack walls 5 causes them to bind on the jacks 10 and prevents free operation of the jacks and the deflection of the outer edges of the jack walls 5 causes displacement of the springs 16 from the extensions 18 of the jacks 10 resulting in the springs becoming caught between the extensions 18 of the jacks and the extensions 19 of the jack walls 5 and preventing the free operation of the jacks 10. To prevent the binding of the jack walls 5 and the deflection of the outer edges, applicant provides the retaining rod 20 for the jacks 10 with the slotted projection 21 which receives the outer edges of the jack walls and distributes to the other jack walls of the section the pressure exerted against any of the jack walls of the section. In this way all of the jack walls act as a unit to resist the pressure exerted against any one thereof and the bending of the jack walls and deflection of the outer edges thereof are prevented.

What is claimed is:

In a full fashioned knitting machine, jacks, a support on which said jacks pivot, springs engaging said jacks at an end thereof, a rod preventing separation of said jacks from said support and separation plates between adjacent jacks serving to guide said springs, said rod being slotted to receive and retain said separation plates and prevent deflection of the spring guiding portion of said plates.

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