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J. B. ZEHLIN & CO., Proprietors
St. Louis, Missouri

New Patents

George L. Reed, of Springfield, O., assignor to the Reed Manufacturing Company, of Springfield, O., a corporation of Ohio. Hand Loom. No. 1,004,079. September 26, 1911.

This invention relates to hand looms, and more particularly to what are known as harness changers for such looms.

The invention is designed especially for use in connection with four harness looms, that is, looms employing four heddle frames, but it is capable of use with looms employing a greater or lesser number of heddle frames.

The object of the invention is to provide positively actuated means for shifting the positions of the heddle frames relatively one to the other each time the lathe makes a complete movement.

To this end it is a further object of the invention to provide means adapted to engage the respective heddle frames and be moved in unison to shift said frames, movement being imparted to the cams by the movement of the lathe.

A further object of the invention is to provide such a device which will be simple in its construction and positive in its operation and which will not be liable to become disarranged or to be broken.

It consists of a main frame, a plurality of heddle frames movably supported thereon, and a lathe frame pivotally mounted on said main frame, of a shaft, a plurality of cams mounted on said shaft and arranged to engage the respective heddle frames, a ratchet secured to said shaft, a vertically reciprocating bar, a pawl carried by said bar and adapted to engage the teeth of said ratchet, a forwardly extending part carried by said reciprocating bar, a stop carried by said ratchet and adapted to engage said forwardly extending part, and means for operatively connecting said reciprocating bar to the pivoted lathe frame.

Hermann W. Wilkes, of Stirling, N. J. Loom Gage. No. 1,002,841. September 19, 1911.

This invention relates to improvements in loom gages such as are used to record the amount of material that passes through a loom or similar machine. It is customary to place such gages between the reed and first roller of a loom, the instrument being fastened to some convenient support, and the knurled heads engaging the edge of the work. The material passing between the knurled heads causes them to rotate and consequently operate the instrument. In the common type of gage a single dial is provided on which revolves a pointer directly connected through suitable gearing to one of the knurled heads, thus enabling the operator by observation or use of a watch to determine the rate of speed machine operates at.

The object of the invention is to improve such instruments by the addition of a device that will record or meter the quantity of work passing between the knurled heads, thus keeping accurate count of the production of each machine and enabling the operators to adjust them accordingly.

It consists of a casing, two parallel shafts passing through the casing and terminating at one end in knurled heads, the upper shaft fixed in suitable bearings and the lower shaft journaled in the ends of vertical rods, which extend up through the top of the casing and are vertically adjustable with reference to same so as to regulate the distance between the knurled heads.

John R. Bolton, of Methuen, Mass., assignor to Foster Machine Company, of Westfield, Mass., a Corporation of Maine. Apparatus for Gassing Yarn or Thread. No. 1,000,770. Aug. 15, 1911.

This invention relates to an apparatus for gassing yarn or thread by means of a gas flame in order to remove therefrom fine fibers, fluff and the like. Heretofore this operation has been carried out with individual threads or yarns, each one being led from a suitable bobbins or spool through guides to another spool, onto which it is wound, and in its travel from one to the other spool each yarn or thread passes through or in close proximity to a small gas flame.

Inasmuch as each yarn or thread is gassed by itself it will be manifest that great lack of uniformity in treatment must result, for on a frame sustaining a large number of the individual gassing devices some of the yarns or threads may be over-gassed, others insufficiently gassed, and still others will be properly treated, very slight variations in the flame resulting in wide differences in the condition of the gassed yarn. Not only is the lack of uniformity in the product very objectionable, but the present system is slow, cumbersome and expensive, for each yarn or thread has to be unwound from one spool and wound upon another after gassing without regard to subsequent operations. The operation is slow, because each frame can treat only a relatively small number of yarns or threads, and hence a large number of the frames must be provided where the quality of yarn to be gassed is considerable, and a large amount of floor space is required to accommodate the frames.

The present invention has for its object the production of means whereby a large number of yarns or threads, several hundred, in fact, may be gassed simultaneously and with perfect uniformity, in a rapid and efficient manner and in a relatively small space. To this end the yarns or threads in the form of a sheet are caused to travel longitudinally at proper speed and while in motion they are subjected to the action of a flame, by means of which the individual yarns are gassed and uniformly. Inasmuch as the travel of the sheet of yarn or thread (hereinafter sometimes termed the filamentous sheet, or briefly the sheet) is stopped when an end break has made provision for stopping the travel of the sheet automatically upon such failure of an end, or ends.

When the travel of the sheet is stopped there must be immediate interruption of the gassing action, to prevent burning of the yarns or threads, and accordingly I have provided automatic means to render inoperative the gassing instrumentality concurrently with stoppage of travel of the sheet.



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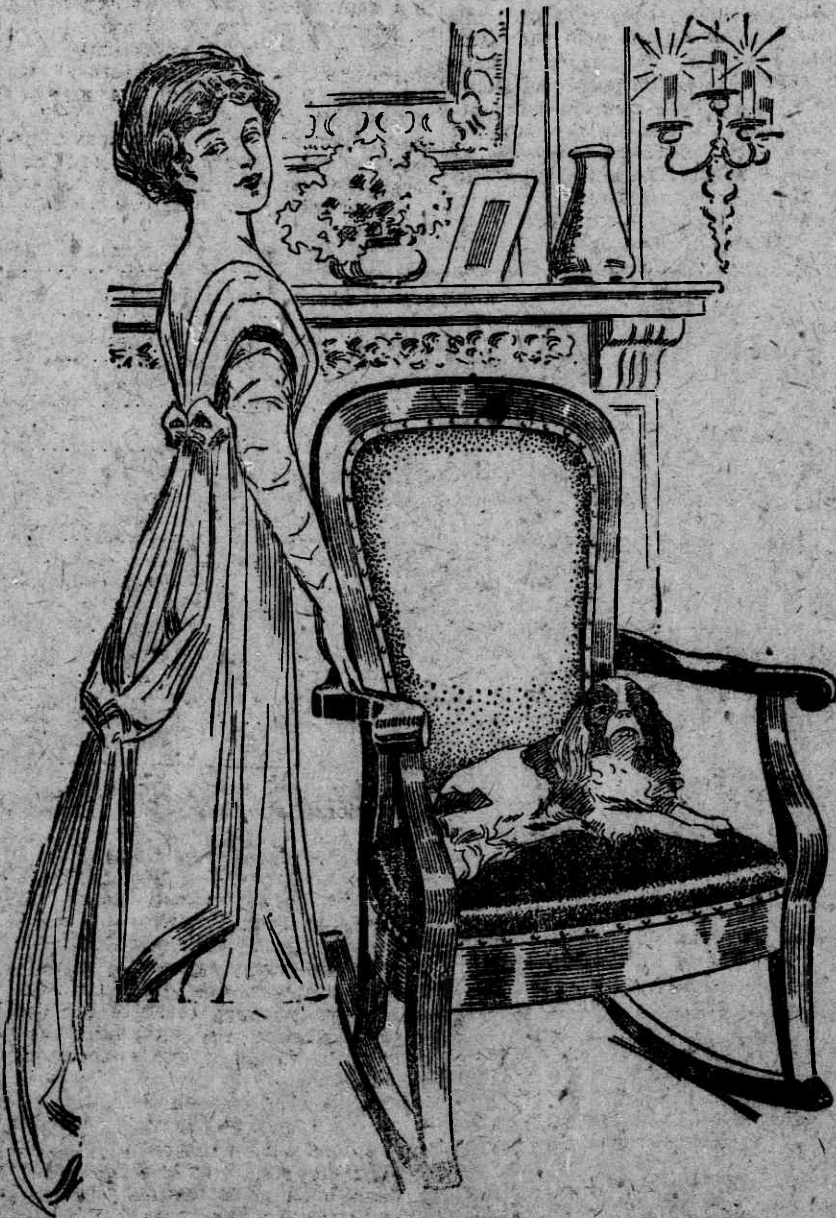
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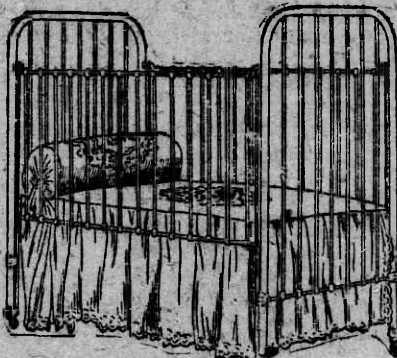
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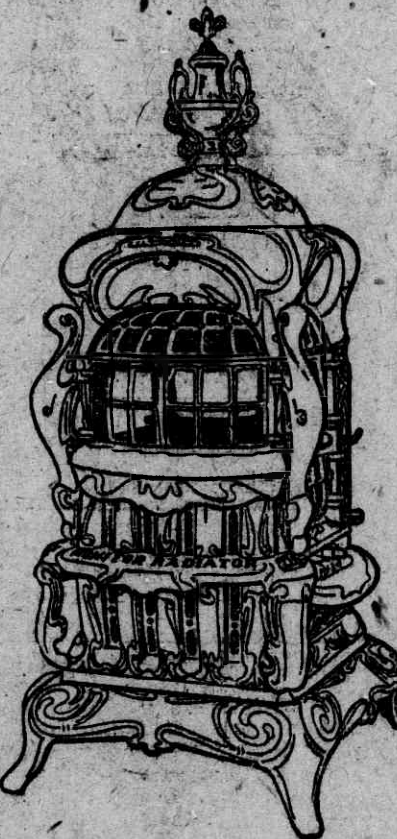
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