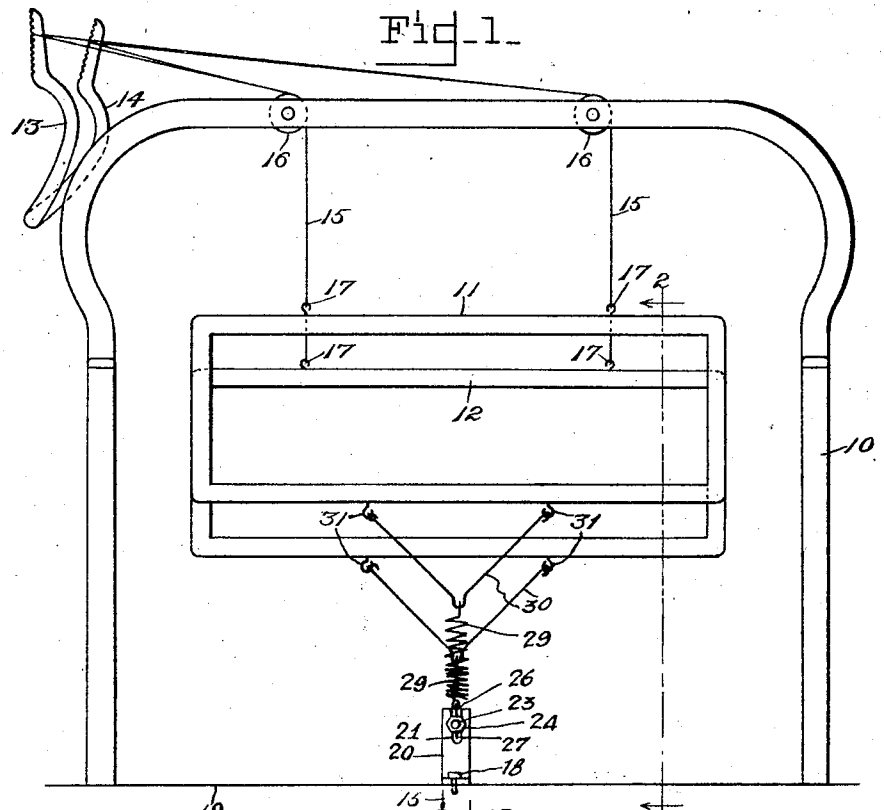
Nov. 16, 1926. 1,607,298

G. E. OFIESH ET AL

LOOM HARNESS MECHANISM

Filed Oct. 20, 1925

Fig. 1.



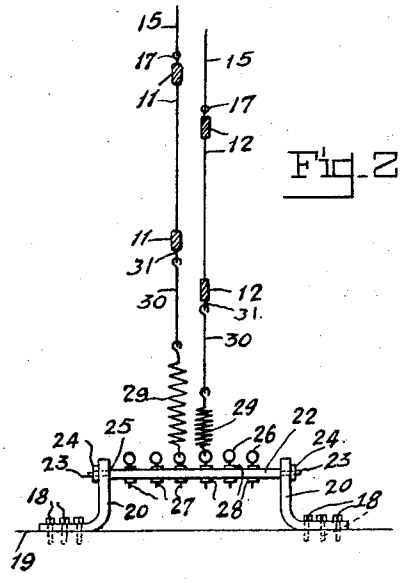


Fig. 2.

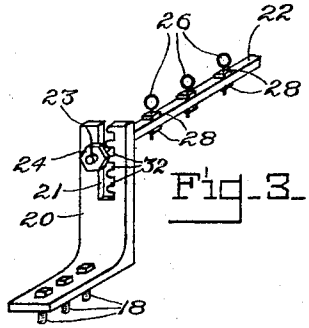


Fig. 3.

INVENTORS=
George E. Ofiesh and Richard M. Baumgras
by Mendleson, Calvin, Copeland & Fitz.
ATTORNEYS.

Patented Nov. 16, 1926. 1,607,298

UNITED STATES PATENT OFFICE.

GEORGE E. OFIESH AND RICHARD M. BASSIAPEIS, OF LAWRENCE, MASSACHUSETTS.

LOOM-HARNESS MECHANISM.

Application filed October 20, 1925. Serial No. 63,647.

This invention has for its general object to provide an improved spring harness mechanism for use in dobby looms of the type wherein the several harnesses are moved in one direction by the usual jacks and connections and in the opposite direction by springs. More particularly, the invention has for its object to provide a mechanism of this character wherein a single spring only is required for each harness and wherein the several springs may be adjusted either simultaneously or independently.

The foregoing and other objects of the invention, together with means whereby the latter may be carried into effect, will best be understood from the following description of one form or embodiment thereof illustrated in the accompanying drawings, in which:

Fig. 1 is a simplified and more or less diagrammatic front elevation of a loom embodying the invention.

Fig. 2 is a section taken substantially on the line 2—2, Fig. 1.

Fig. 3 is an enlarged detail perspective view of one of the supporting means for the springs.

In Fig. 1, the loom frame is shown at 10 and two harnesses at 11 and 12, said harnesses being moved in one direction by jacks 13 and 14, respectively, through suitable connections herein shown as cords or straps 15 passing over suitable sheaves 16 on the loom frame and connected at opposite ends respectively with the jacks and with hooks or eyes 17 on the harnesses. The parts thus far referred to may be of any construction and arrangement usual in looms of this type. The harnesses 11 and 12 are moved in opposition to the jacks 13 and 14 and connections 15 by spring devices to which the present invention relates and the preferred construction of which is as follows. Secured, as by bolts 18, to the floor or other base 19 upon which the loom frame is supported are two angular brackets 20 having upright portions formed with vertical slots 21, which as shown extend to the upper ends of said upright portions. Adjustably supported in the slots 21, and connecting the upright portions of the respective brackets 20, is a bar 22 constituting the direct support for the spring devices hereinafter described. The bar 22 is formed with reduced threaded end portions 23 which extend through the slots 21 and are provided with nuts 24, whereby the ends of said bar may be clamped in adjusted position to the upright portions in the brackets 20, said nuts engaging the outer faces of said upright portions, the inner faces of which are engaged by shoulders 25 formed by the reduced end portions 23. The slots 21 are preferably each formed at one side with a series of notches 32 with which the end portions 23 of the bar 22 may be selectively engaged in order to positively lock said bar in adjusted position. Mounted in the bar or support 22 are a plurality of eye bolts 26 having threaded stems 27 which pass through said bar and are provided with lock nuts 28, whereby said eye bolts may be independently adjusted in said bar and secured in adjusted position. Connected at their lower ends with the eye bolts 26 are springs 29 equal in number to the harnesses and each connected at its opposite end to a wire or other yoke 30 having diverging arms connected at their upper ends to hooks or eyes 31 carried by the corresponding harness, the points of connection of said yokes to their respective harnesses being at opposite sides respectively of their points of connection with the springs 29.

It will be seen that the yokes 30 permit the use of a single spring for each harness. It will also be seen that the springs may be adjusted in unison by adjustment of the bar 22 in the brackets 20, or that the several springs may be independently adjusted by adjustment of the eye bolts 26 in the bar 22.

Having thus described our invention, we claim:

In a loom harness mechanism, the combination wtih the harnesses and the jacks and connections for moving said harnesses in one direction, of springs for moving the several harnesses respectively in the opposite direction, a pair of slotted brackets, a bar having its ends adjustably secured in the slots in said brackets, and means for connecting the spring to said bar.

In testimony whereof we affix our signatures.

GEORGE E. OFIESH.
RICHARD M. BASSIAPEIS.