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# J. C. Kempton.

## Loom.

Patented Jun. 14, 1834.

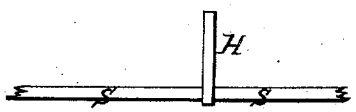



Fig. 1.

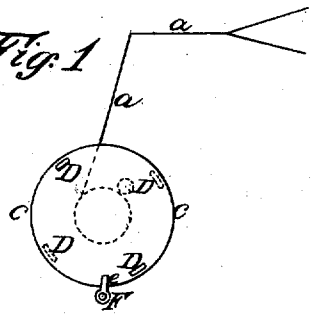



Fig. 2.

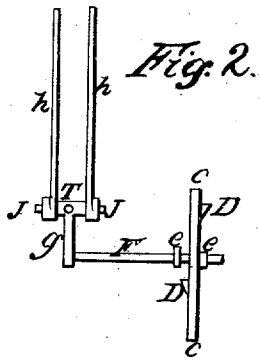
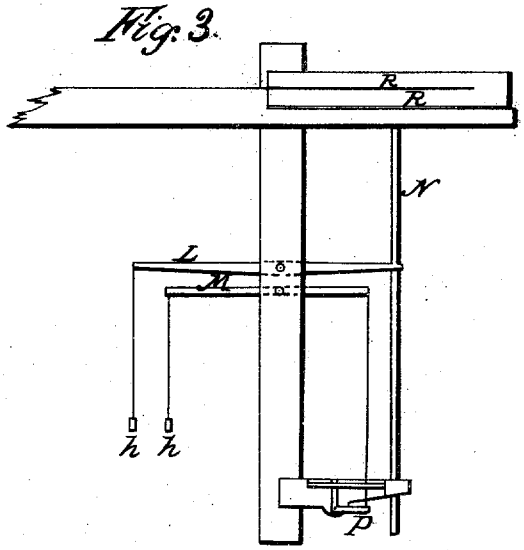



Fig. 3.




N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

June 14. 1834

James & Kempton Manayunk Penn

Letters Patent

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The Schedule referred to in these Letters Patent and making part of the same Containing a description in the words of the said James & Kempton himself of his improvement in the Power Loom

To all to whom it may Concern Be it known that I James & Kempton of Manayunk, in the County of Philadelphia and State of Penny Ivania have invented an improvement in the power Loom which improvement is intended to be applied to the weaving of Checks and Cross bars and I do hereby declare that the following is a full and exact description thereof

In the ordinary Mode of weaving Checks and Cross bars by power looms the width of a Stripe of any particular Color is governed by the number of throws of the Shuttle, and should the warp run out or break previous to completing the Stripe the Shuttle will continue in motion until (a fixing) performed the requisite number of throws the box changes, and this brings into action another Shuttle containing a different Color and thereby produces an irregular Stripe By my improvement the change of boxes is independant of the number of throws of Shuttle being governed by the width of Stripe actually woven which I effect in the following Manner a a Fig 1 represent the Cloth posing over and around the Cloth beam B.C.C. is a Pattern wheel on end of Cloth beam and meshing with it D.D.D. are small cams set at requisite distances on either side of wheel C.C. by the revolving of Pattern wheel, these small cams act on the projecting pins E.E. fig 2. which gives the rod F a slight reciprocating motion. G is a short arm projecting from the stand H.H. and attached by a moveable joint to rod F. K. K are levers moving vertically in their fulcrums L.L. and horizontally on their fulcrums I I. E is an arm projecting from revolving shaft B.B. the reciprocating motion of F brings the levers K.K in the respective angle the arm E. by which they receive a vertical Movement the depression of one being attached to lever L. fig 3. forces up the rod N and with it lever K.K the depression of one connected with Pattern M. acts on the face pin P and by withdrawing a catch from rod O.

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allows the doors to fall. The relation of Clock-hands effected in the usual manner by means of rather and pinion which causes it to revolve only as the hoop is drawn in of Course should a Mainspring break or run out, the beam and with it the Pallets will remain quiet and thus the boxes remain unchanged however frequent the shells may be thrown.

What I Claim as my invention is the Method herein described of changing the boxes independent of the number of throws of Shuttle by means of the Stripe actually thrown and this I claim whether the same is effected precisely in the manner set forth or in any other operating on the same principle and producing the same effect

Witnesses

Edd. Moses Kempton

Wm. Samuel Bordeu

James C Kempton

Drawing

1 Sheet