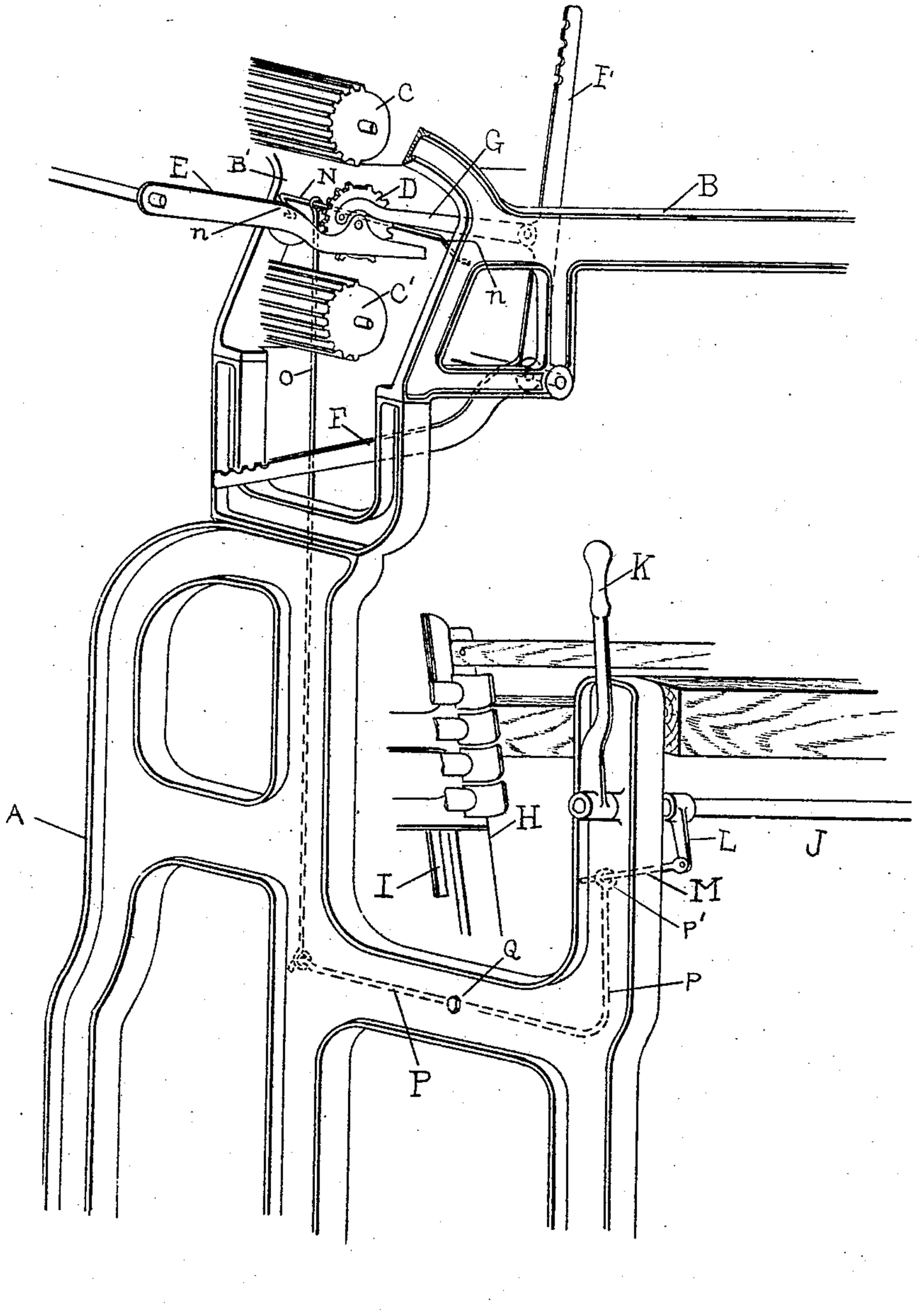
No. 845,279. PATENTED FEB. 26, 1907.

T. THOMPSON.

STOP MOTION FOR LOOMS.

APPLICATION FILED FEB. 14, 1906.



WITNESSES

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STOP-MOTION FOR LOOMS.

No. 845,279. Specification of Letters Patent. Patented Feb. 26, 1907.

Application filed February 14, 1906. Serial No. 300,953.

To all whom it may concern:

Be it known that I, THOMAS THOMPSON, a citizen of the United States, residing at Central Village, in the county of Windham and State of Connecticut, have invented certain new and useful Improvements in Stop-Motions for Looms, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to that class of stop-motions for looms which is operative upon the fracture of a portion of the loom mechanism, and has for its object the ends commonly sought in this class of mechanisms; but more particularly is it sought to avoid the fracture or other injury to those loom parts which are adjacent or contiguous to the broken member.

A further object is to prevent the continued picking or other action of the loom after a break which renders the harness inoperative.

To the above ends, essentially, my invention consists in an automatically-operative connection adjacent to and operated by the fractured part actuating the shipper-rod.

In the drawings, which constitute a part of these specifications, and in which like characters of reference indicate like parts, the figure is a perspective view of my novel mechanism embodied in an ordinary loom, such parts only of the latter being shown as are pertinent to the invention involved.

The loom herein shown for the purposes of illustration comprises the following usual parts:

A is the frame; B B′, the front and rear arches, respectively; C and C′, the upper and lower cylinder-gears; D, the vibrator-gear, supported by the vibrator-lever E.

F is one of the jacks, and G the vibrator-connector.

H is the lay, provided with a bunter I, and J is the shipper-rod, carrying the shipper handle or lever K. Upon the rod J is mounted a finger L, to whose end is pivoted a dagger M, whose free end is normally below the line of travel of the bunter.

Pivotally mounted in the arches below the vibrator-connector G is a horizontal wire rod N, having the portions adjacent its ends rectangularly bent or arched, *n*. The bent or arched bar N is normally upwardly inclined, but is adapted to swing downwardly into a substantially vertical plane by light pressure or impact thereon from above. Pivotally attached to the rod N is a vertical connecting-rod O, whose lower extremity is connected to the inner end of a horizontal wire lever P, pivoted intermediate its extremities by a pivot-pin Q in the loom-frame. The outer end of the lever P is upwardly inclined, *p*, and provided upon its extremity with an eye or opening *p′*, through which the dagger M passes. In order not to obscure the novel parts, only one jack and vibrator-connector are shown. The lever P and parts of the rod O and dagger M are shown in broken lines.

The operation of my novel mechanism is as follows: If and when the vibrator-connector breaks, as is a comparatively frequent occurrence, one of the broken parts forthwith presses the inclined bar or rod N downwardly into a substantially vertical position, thereby through the connecting-rod O elevating the outer end of the rod P and raising the point of the dagger M into the line of travel of the bunter I, whereby through the finger L the shipper-rod J is rotated to stop the loom.

Having described my invention, what I claim is—

1. In a loom, the combination with the vibrator-connectors of movable means adjacent the connectors and adapted to be operated by a broken connector, and stopping instrumentalities actuated by the movable means.

2. In a loom the combination with the vibrator-connectors, of pivotal means adjacent and below the connectors, and adapted to be swung by a broken connector, and stopping instrumentalities connected with and actuated by the pivotal means.

3. In a loom the combination with the vibrator-connectors of a bent rod pivotally mounted below and adjacent the connectors, means for shifting the shipper, and connections between the bent rod and shipper-shifting means.

4. In a loom the combination with the vibrator-connectors, of an inclined bent rod pivotally mounted below and adjacent the connectors, the shipper-bar, a finger on the shipper-bar, a dagger upon the finger, a pivoted lever supporting the dagger, and a rod connecting the bent rod and lever.

In testimony whereof I have affixed my signature in presence of two witnesses.

THOMAS THOMPSON.

Witnesses:
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