A. S. WYNN.
Stopping Mechanism for Looms.

No. 166,737.

Patented Aug. 17, 1875.

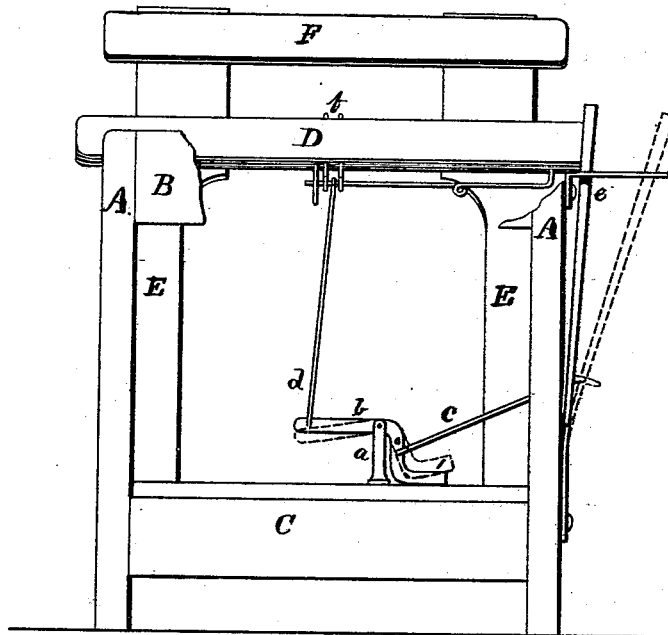
FIG. 1.
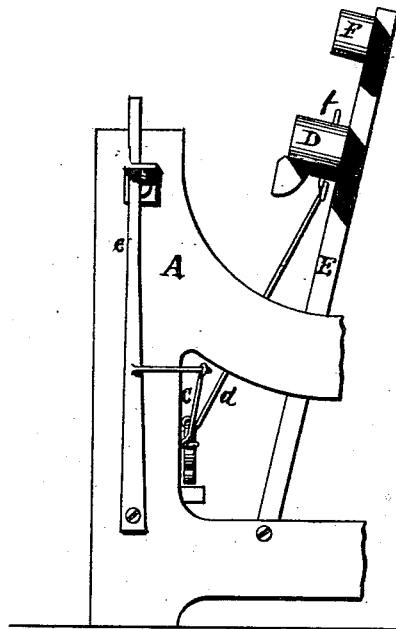
FIG. 2.
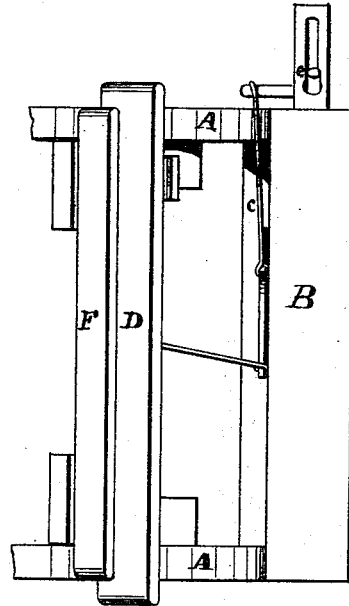
FIG. 3.

WITNESSES.

INVENTOR.

Andrew S. Wynn

UNITED STATES PATENT OFFICE.

ANDREW S. WYNN, OF PROVIDENCE, RHODE ISLAND.

IMPROVEMENT IN STOPPING MECHANISMS FOR LOOMS.

To all whom it may concern:

Be it known that I, ANDREW S. WYNN, of the city and county of Providence, and State of Rhode Island, have invented a new and useful Improvement in Stopping Mechanism for Looms; and I do declare the following to be a full, clear, and exact description of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures marked thereon.

Figure 1 is a front view of the improvement as applied to the loom and stop-motion. Fig. 2 is a side view of the same. Fig. 3 is a top view, with the shipper-lever in position to operate the loom.

A is the side frame of the loom. B is the breast-beam, cut away in Fig. 2 to show the lathe. C is the shuttle-race, through which the weft fork or feeler reciprocates to feel for the filling in the shed. E E are the swords of the lathe; F, the hand-rail. *a* is the stand on which vibrates the angle-piece *b*, to which is connected the shipper *e* by the rod or wire *c*, the other end being connected with the fork or feeler *f* by the rod *d*. When the shipper is thrown off to stop the loom it acts upon the angle-piece at *o* through the connection *c*, and depresses the other end of the angle-piece, causing the rod *d* to pull down the fork beneath the shuttle-race, and retain it in that position so long as the shipper-lever shall be in position to stop the loom, as indicated by the dotted lines.

This improvement is applicable to that class of weft-stop motions having a fork or feeler adapted to reciprocate vertically through the shuttle-race of the lathe, and be projected above it; and it consists in the application of any suitable mechanism to the stop-motion which, when attached to the shipper, or any part of the shipping mechanism, shall have the effect to depress the fork or feeler beneath the shuttle-race, and retain the same in that position so long as the shipper shall be in position to throw off the belt or stop the loom.

One object of my invention is to allow of the free movement of the lathe forward or backward by hand without the liability of the fork or feeler catching in the cloth, and bending it out of shape, and otherwise damaging the fabric. It is also very important, when removing the cut of cloth from the loom, or when putting in a new warp, that the fork should be depressed beneath the surface of the race, so as to escape injury in the operation. If the fork at such times should be allowed to reciprocate it would be bent or destroyed, or the fabric would be torn or otherwise damaged.

I am aware that various devices might be arranged to accomplish the end desired, and I have already several different ones in use; but the one I have described is the simplest and least expensive, and is positively certain to perform its work when required. Therefore I do not base my claim or invention upon a specific mechanism, but upon the connection of the feeler with the shipping mechanism, so that they shall operate together simultaneously, whether connected as shown, or by other devices arranged to act upon the stop-motion lever at the end where it comes in contact with a cam.

Having thus described my invention, what I desire to claim as my invention is—

In combination with the shipping mechanism of a loom and suitable connecting mechanism, the feeler *f*, adapted to be reciprocated vertically through the lathe, all operating together substantially as described, to withdraw the feeler below the shuttle-race, when the belt is shifted to the loose pulley, and retain it in that position as long as the belt remains upon the loose pulley, as and for the purposes set forth.

ANDREW S. WYNN.

Witnesses:

SAML. W. ADAMS,
WM. C. CHASE.