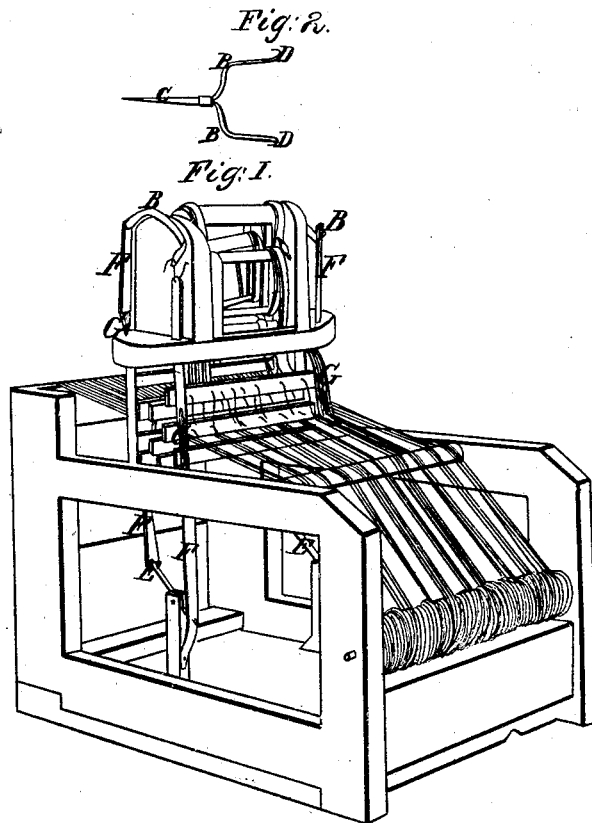


J. D. Seagraves.
Shedding.

N^o 740.

Patented May 17, 1838.



UNITED STATES PATENT OFFICE.

JOHN D. SEAGRAVE, OF UXBRIDGE, MASSACHUSETTS.

LOOM FOR WEAVING SATINET CASSIMERE, AND OTHER CLOTHS.

Specification of Letters Patent No. 740, dated May 17, 1838.

To all whom it may concern:

Be it known that I, JOHN D. SEAGRAVE, of Uxbridge, in the county of Worcester and State of Massachusetts, have invented new and useful improvements in looms by which plain selvages on satinet are made and on all other cloths manufactured with more than two harnesses; and I do hereby declare that the following is a full and exact description thereof, reference being had to the annexed drawings of the same, making part of this specification.

The nature of my invention consists in attaching to what is commonly called the top roller or top harness roller of satinet and all other looms using more than two harnesses, an apparatus that will make a plain selvage of any width desired while the body of the cloth will be waled or kersied.

To enable others skilled in the art to make and use my invention I will proceed to describe its construction and operation. I attach to each end of the top roller A an instrument of the following description, namely, an iron B, represented in section at Figure 2, in the shape of a fork or semi-oval having a shank C which is to be driven into the center of the roller A, the shank of which answers the purpose of a bearing for said roller. The shank C may be made in any mode to please the user—that is, flat, square, or eight square, &c., except the bearing turning in the box, which must be made round; the fork or tines B, B, must reach each way as far as the end of the harnesses, the ends of the fork must turn out, and then down, and then up again in order to form a hook D on the end of each tine; the distance from one tine to the other is governed by the diameter of the roller A; there must

be a vibrating lever E or pulley made to vibrate or turn on a pin in the end of a short post on something made fast to the floor. Said lever or pulley must be directly under the ends of the fork and must correspond in length or diameter to the distance between the tines in using a lever (which is most convenient). I attach a strap F, F to each end by means of a hook on each end of said lever. I also attach a strap on each hook of the fork; said straps both above and below varies according to the height of the loom; I use but two harnesses G at each end for raising the warp in making the selvage which must be about one foot in length from the top to the bottom with the eyes in the middle; the top of each is fastened to the straps suspended from the fork and the lower end of said harnesses are likewise made fast to the upper ends of the straps on said levers; so as to form a continued line from one end of the fork to that end of the lever directly under it. Said selvage harness play on the outside of the other or main harness the back and forward movement of said top roller being always alternate or vibratory by attaching the above described apparatus in the manner described it will make a plain selvage while the rest of the cloths is kersied or waled.

The invention claimed and desired to be secured by Letters Patent consists in—

The combination of the separate selvage harness with the top roller as herein described.

JOHN D. SEAGRAVE.

Witnesses:

WILLIAM P. ELLIOT,
WM. BISHOP.