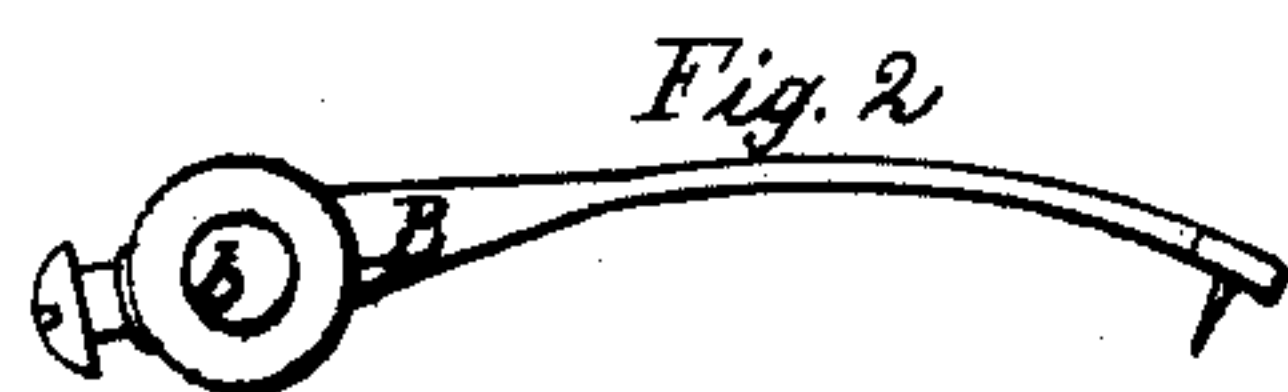
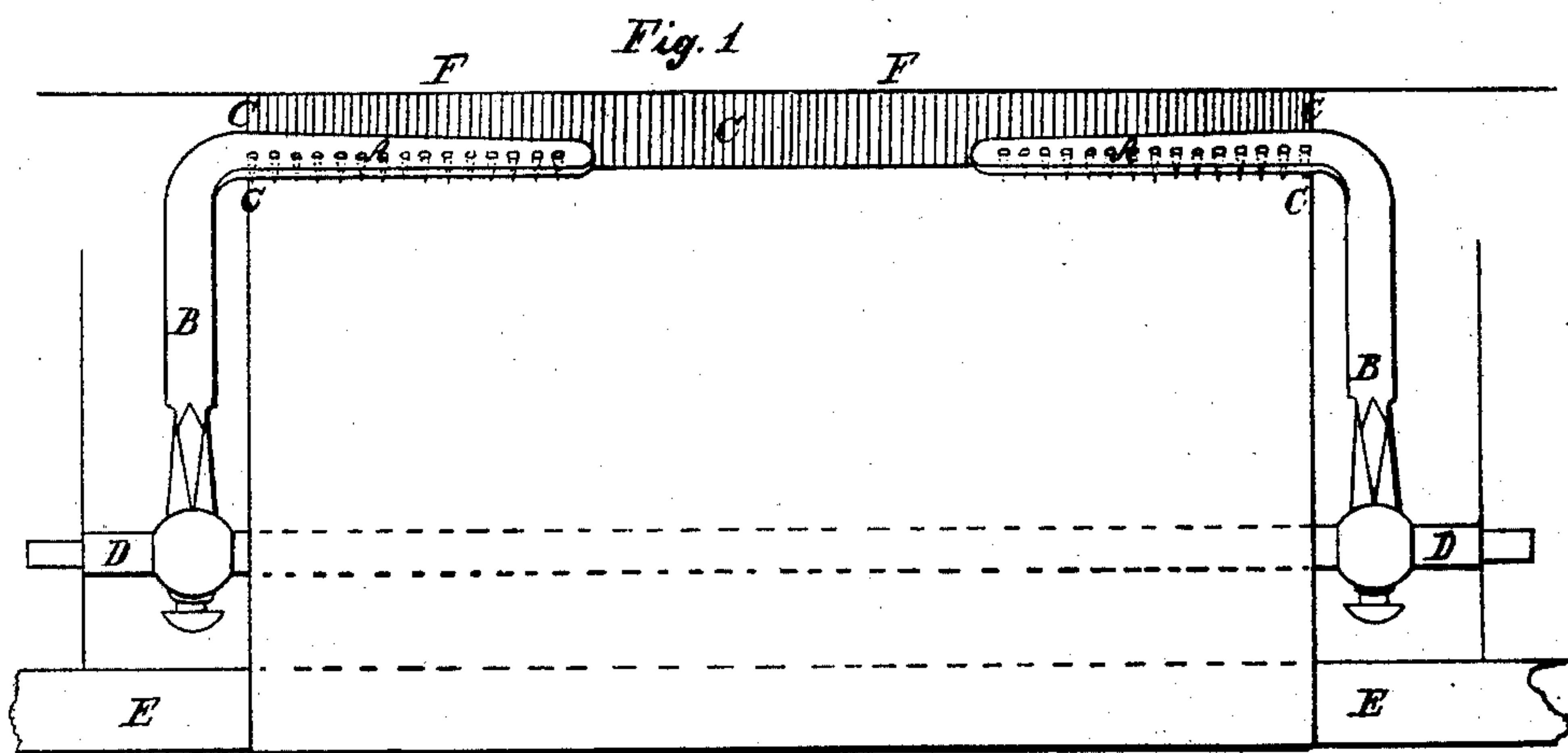


W. H. HOWARD.

Loom Temple.

No. 17,375.

Patented May 26, 1857.



Witnesses
John W. Smith
Elisha Parker

Inventor
W. H. Howard

UNITED STATES PATENT OFFICE.

WM. H. HOWARD, OF PHILADELPHIA, PENNSYLVANIA.

LOOM.

Specification of Letters Patent No. 17,375, dated May 26, 1857.

To all whom it may concern:

Be it known that I, WILLIAM H. HOWARD, of Philadelphia and State of Pennsylvania, have invented a new and Improved Mode of Preventing the Web and Cloth from Contracting in Looms; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The nature of my invention consists in the use of combs applied to the warp or web of cloth in looms to keep the selvages extended.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I construct my combs by fixing pin or needle points in an arm bent at right angles, the angle that forms the comb A, is situated on the side of the arm B, and extends over the selvage and warp C, toward the center of the web, and may be made in one continuous comb extending across the web. The other angle or part of the arm is made to fit on a round rod D, situated on the inside of the breast beam E, and is furnished with a set screw, to allow it to be set so as to bring the comb into a proper position at the selvage and to suit different widths of cloth. The

rod is hung in brackets secured to the breast beam, and turns freely on pivots at its end.

The combs mounted in the way specified operate in the following manner: When the lay recedes the combs fall into the warp or web at the points where the sheds open. When the lay F advances it strikes the under side of the arm G that is hinged on the rod D, and causes the comb to rise just in time to clear the reed as it advances to beat up the weft last thrown across, on the receding of the lay, the combs fall into the warp again and thus prevent the contraction by holding the thread of weft on the outside tooth of the comb, also the warp threads in the same position that they are in the reed while the shuttle and lay goes and comes, acting alternately one with the other.

What I claim as my invention and desire to secure by Letters Patent, is—

The holding of the threads of weft and warp in a web of cloth, extended, by combs applied to the selvages and warp threads thereof, as hereinbefore described, or by any other equivalent mechanism.

WM. H. HOWARD.

Witnesses:

JOHN THOMPSON,
ELISHA PARKER.