

F. J. DUTCHER.

Loom-Temples.

No. 136,644.

Patented March 11, 1873.

Fig 1

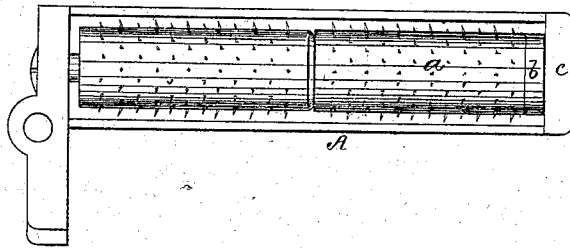
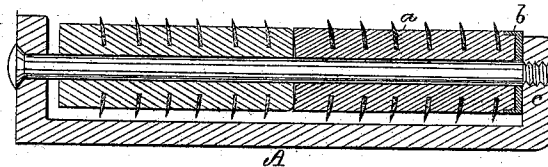


Fig 2.



Witnesses.

S. W. Piper.

L. N. Holler.

Frank J. Dutcher.

by his attorney.

R. H. Day

UNITED STATES PATENT OFFICE.

FRANK J. DUTCHER, OF HOPEDALE, MASSACHUSETTS, ASSIGNOR TO
DUTCHER TEMPLE COMPANY, OF SAME PLACE.

IMPROVEMENT IN LOOM-TEMPLES.

Specification forming part of Letters Patent No. **136,644**, dated March 11, 1873.

To all whom it may concern:

Be it known that I, FRANK J. DUTCHER, of Hopedale, of the county of Worcester and State of Massachusetts, have invented a new and useful Improvement in the Toothed Rollers of Loom Temples; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawing, of which—

Figure 1 denotes a top view, and Fig. 2 a longitudinal section, of a roller-temple, with its inner roller provided with or constructed in accordance with my invention.

Owing to the great strain or draft of the cloth on a temple-roller in a longitudinal direction during the process of weaving, the roller becomes so borne against the end of its trough as not only to operate with much friction upon such end, but, ere long, to be materially worn away and injured. This friction tends to stop the roller from revolving, thereby producing more or less liability of the cloth being strained, torn, or injured by the teeth of the roller.

In carrying out my invention I apply to or combine with the wooden body *a* of the toothed

temple-roller an anti-friction cap or disk, *b*, which I usually make of horn, which, when the roller is in use, becomes interposed between the end of the body and the next adjacent end *c* of the trough *A*, and, by revolving with the roller, operates to prevent friction and wear of its body.

I do not confine my invention to horn as a material for the formation of the cap, although I prefer it to any other on account of its durability and anti-friction property, as well as for other reasons.

The anti-friction cap, as represented, is a recessed disk or narrow thimble fitted upon the end of the body of the roller and cemented thereto.

I claim as a new or improved manufacture—

A toothed temple-roller provided with a wooden body and a horn or anti-friction cap or disk applied to its end, substantially as specified.

FRANK J. DUTCHER.

Witnesses:

JAMES R. DAVIS,
W. W. DUTCHER.