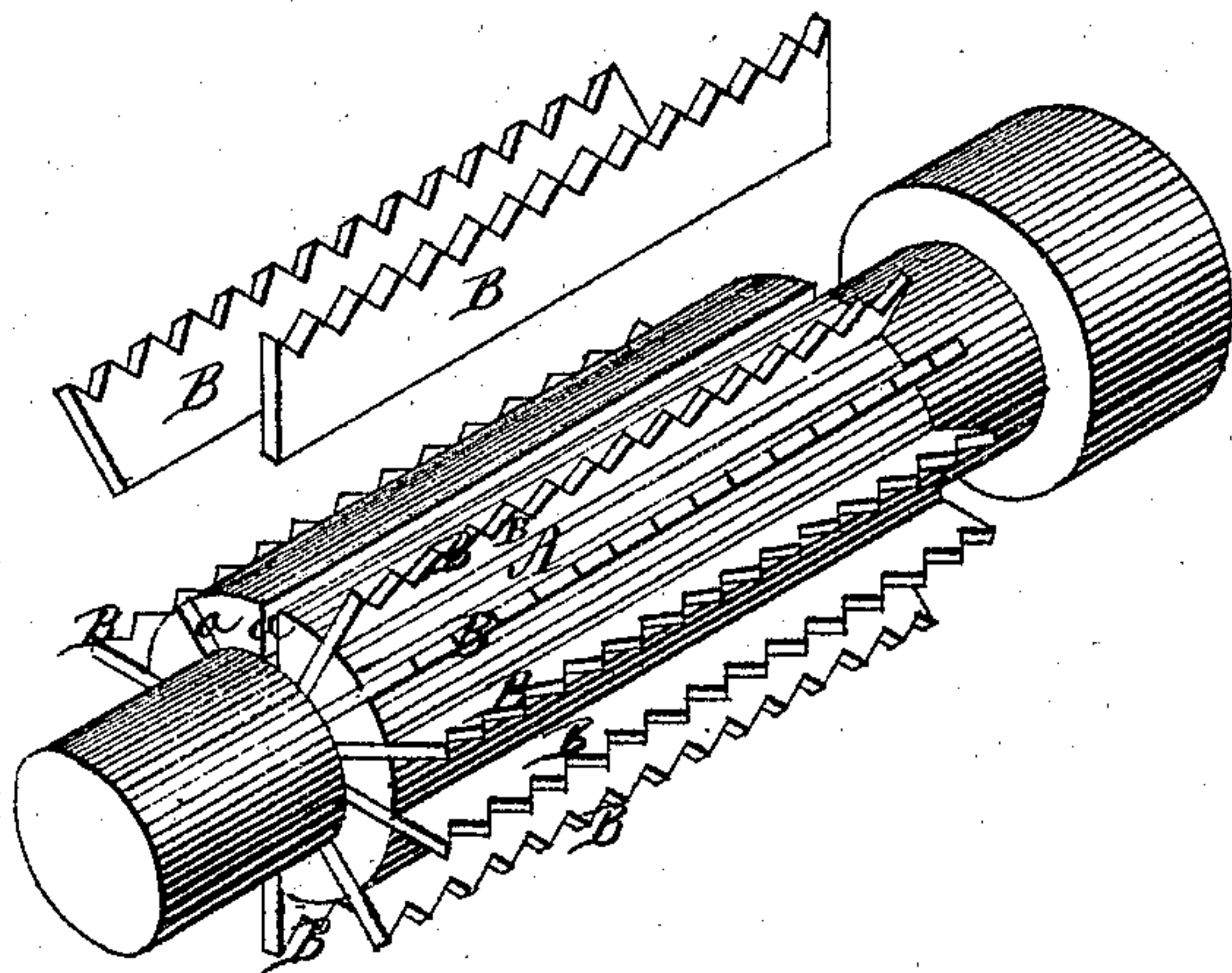


W. P. HALE.

Feed-Rolls for Lumber.

No. 133,775.

Patented Dec. 10, 1872.



Witnesses
John A. Ellis.
Wm. K. Ellis

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UNITED STATES PATENT OFFICE.

WILLIAM P. HALE, OF LOCK HAVEN, PENNSYLVANIA.

IMPROVEMENT IN FEED-ROLLS FOR LUMBER.

Specification forming part of Letters Patent No. 133,775, dated December 10, 1872.

To all whom it may concern:

Be it known that I, WM. P. HALE, of Lock Haven, in the county of Clinton and State of Pennsylvania, have invented certain new and useful Improvements in Feed-Rolls for Lumber; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon which form a part of this specification.

My invention relates to rollers used for feeding lumber in any kind of mills or machines for working lumber; and it consists in inserting saws lengthwise in the roller by means of grooves in the roller, and then upsetting the grooves against the saws so as to hold them solid in place.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which represents a perspective view of my feed-roller for lumber with two of the saws raised out of their grooves.

A represents the roller, of any suitable dimensions, and made of such metal as will readily admit of the manipulations necessary to

complete the feed-roller. In the roller A are made a series of longitudinal grooves, *a a*, which radiate from the center at suitable distances apart. In each of these grooves is inserted a saw, B, which may either be made expressly for the purpose, or any old saw-blades of proper size may be used, if so desired. The saws B B are held solid in place by upsetting the grooves against them.

By this construction of the feed-roller the timber is acted upon by bevel-pointed teeth, which operates far better than the feed-rollers now most generally in use.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A feed-roller for lumber, consisting of a roller A provided with longitudinal radiating grooves *a a*, and saws B B inserted in said grooves and held solid in place by the grooves being upset, substantially as herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

WILLIAM P. HALE.

Witnesses:

I. C. STONER,
B. F. TROXEL.