

UNITED STATES PATENT OFFICE.

AARON REPPARD, OF SAVANNAH, GEORGIA.

IMPROVEMENT IN ROLLER-GAGES FOR SAW-MILLS.

Specification forming part of Letters Patent No. **176,552**, dated April 25, 1876; application filed March 6, 1876.

To all whom it may concern:

Be it known, that I, AARON REPPARD, of Savannah, in the county of Chatham and State of Georgia, have invented an Improvement in Roller-Gages for Saw-Mills, of which the following is a specification:

The invention consists of a novel combination of devices for supporting and adjusting a roller-gage for saw-mills, as will be herein-after more fully described.

Figure 1 is a side elevation of my improved roller-gage, together with dotted lines showing the relation of the gage to the saw and the head blocks; and Fig. 2 is a front elevation.

Similar letters of reference indicate corresponding parts.

Commonly the log is set over the thickness of the planks to be cut off, by a line or other means, the movement of which has to be gaged by a scale of some kind, requiring considerable care to shift it the exact distance required, and at best there will be some variation, sometimes making the planks too thin, and sometimes too thick. It has also been proposed to employ an adjustable roller-gage, which is mounted in a frame that has a nut traveling on a screw-shaft, so as to enable the roller to be adjusted for cutting different thicknesses of timber. This contrivance possesses several objections, and for this reason I propose to

employ an adjustable roller-guide, A, on the side of which the boards B are cut, with a shifting-lever, C, and a scale, D, for setting it for boards or planks of any thickness, said roller being located just in advance of the saw E, so that by setting the log F against it every board will be gaged exactly alike as to thickness, and the attendant will be enabled to set the log quicker and with less care. N represents the head blocks on which the log is carried. The roller-gage is mounted in a bracket, G, which slides on the bed-piece H, and the lever is connected to it by the link J. The lever is connected to the bed-piece H by a bracket, K, which may be contrived in practice to be shifted along in case the gage is to be adjusted for very thick timber. M is a roller, which I also propose to use in connection with the roller-gages for supporting the weight of the plank cut off.

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

The combination, with the roller-gage A, of the sliding bracket G, supporting-bed H, lever C, link J, and toothed scale or lever-retaining segment D, as and for the purpose set forth.

AARON REPPARD.

Witnesses:

W. W. KOLLOCK,
EDWARD M. HABERSHAM.