(12) **United States Patent**
Stone

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(54) **SAW MILL STRAP**

(76) Inventor: **Othniel Stone**

Othniel Stone
Letters Patent

The schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said Othniel Stone himself, of his improvement in saw mills & sawing machines called the Sharp Saw—

To all persons to whom these presents shall come

Othniel Stone of the town of Pittsford in the county of Monroe and State of New York send greeting.

Be it known that I Othniel Stone have invented constructed and applied to use new and useful improvements in saw mills and sawing machines called Eggs the Sharp Saw & am specifically together with the saw in the words following. The saw containing said improvement is made in the form of a hoop or ring, and may be made any number of feet in circumference according to the purposes to which it is to be applied, and the saw-plate may be of any width or thickness. The size of the saw selected for description herein is nine feet in circumference. three inches in width and the thickness of a thin wood saw. but the circumference of the saw. the width and thickness may accordingly to circumstances

The saw is hung round two wheels or drums eighteen inches in diameter and three inches thick with a rim one fourth of an inch raised above the wheel or drum for the back of the saw, to run against to prevent the saw from running off the wheels or drums which wheels or drums are to be placed the one exactly over the other but the wheels or drums may be any other diameter or thickness or the rim raised less or more than one fourth of an inch. as may be most convenient. The above description applies to a saw with teeth on one edge only. The saw may be made

made with teeth on both edges so as to saw both ways, in which case the wheels or drums will be made with cogs in the centre of the wheels or drums two inches apart and one fourth of an inch square at the surface and tapering towards the outside with square holes in the saw — two inches apart and one fourth of an inch square to keep the saw when in motion from slipping either way on the wheels or drums but the cogs may be put any distance apart and any size provided they secure the saw when in motion from slipping on the wheels or drums. And the wheels or drums may be any thickness. but if they are thicker than the width of the saw. it will be necessary that the part of the wheels or drums directly inside of the teeth of the saw be made less than the rest of the wheels or drums so as to prevent the same from taking the set out of the saw. The wheels may be made of wood or iron or any kind of metals or part wood and part iron or metals. If the wheels or drums be made of iron or any kind of metal the same may be covered with leather so that the outer edge or edges may be sewed or cut down as the saw gives in the saw is to be kept steady by means of two pairs of rollers the lower pair stationary, and the upper pair moveable. The lower pair of rollers will be placed directly under and as near as may be to the timber or wood to be sawed. and the upper rollers will be placed directly over the timber or wood to be sawed with a slide to raise it up or down as the thickness of the timber or wood to be sawed may require which rollers may be made of wood or iron or part wood & part iron & to be as long as the saw is wide and the rollers of each pair to be far enough apart to let the saw pass between them and made a little smaller where the saw teeth are so as not to take the set out. which rollers may be an inch or more in diameter. If it should be necessary one

or more set of rollers may be dispensed to keep the saw steady & from trembling. The saw may be driven by the application of hand, horse, steam, or water power and adapting to the sawing of mill logs of any dimensions. Slitting, sawing veneering, sawing woods, or any kind of sawing whatever. When the saw is stretched upon the wheels or drums the sides will be flattened. The specific new and useful improvements herein before described and claimed by me as the inventor are the following. First the shape of the saw. Second the manner of hanging the saw. Third the manner of keeping the saw steady when in motion by means of rollers. Fourth the manner of marking the saw with teeth on one or both edges.

Witnesses
Ira Bellows
Solomon Stone

Ahmeda Stone

Drawing

Exd.
H.F.L.