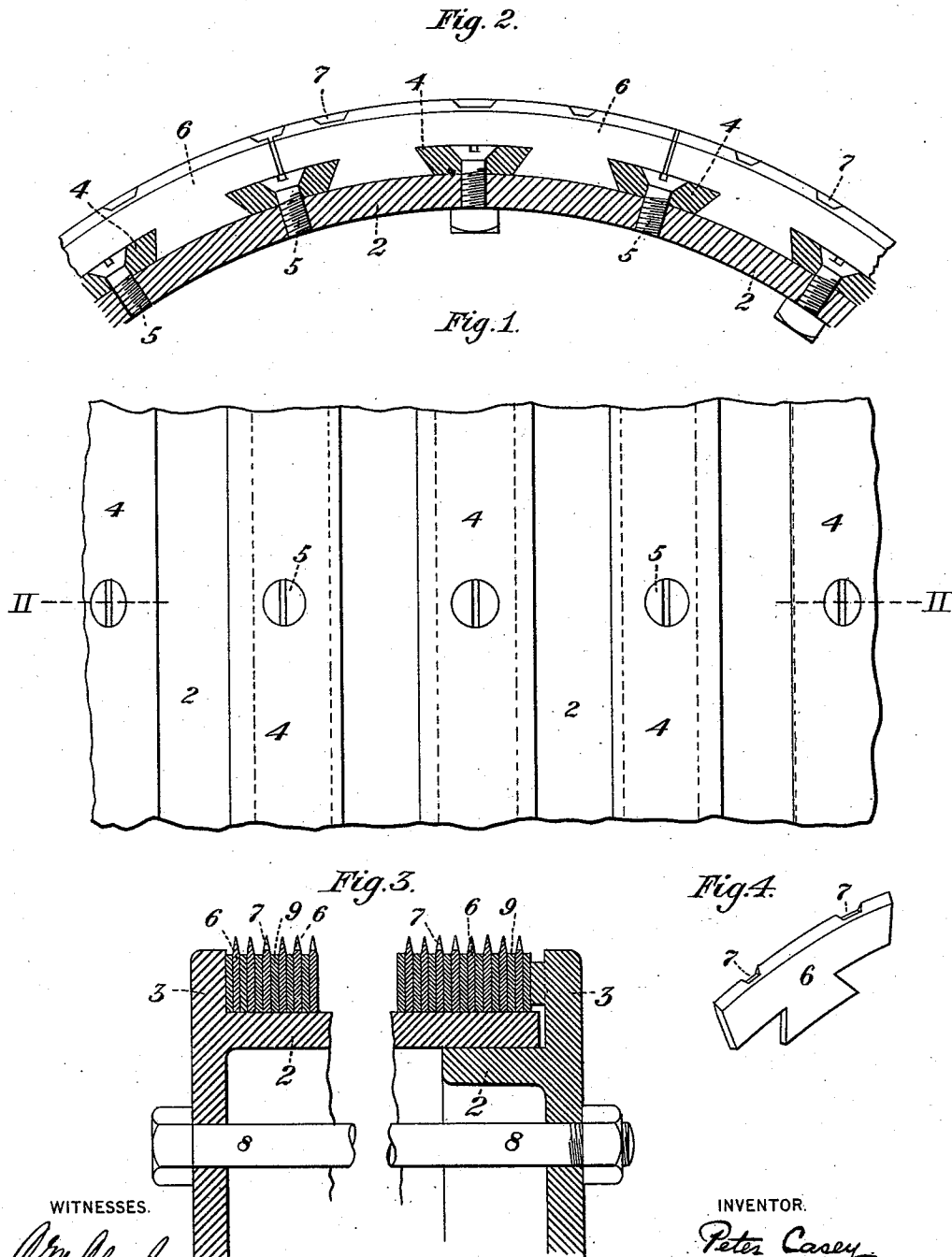


(No Model.)

P. CASEY.
WOOD GRAINING MACHINE.

No. 466,322.

Patented Jan. 5, 1892.



WITNESSES.

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UNITED STATES PATENT OFFICE.

PETER CASEY, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR TO HIMSELF AND JOHN SHANNON, OF SAME PLACE, AND WILLIAM W. GRIER, OF HULTON, PENNSYLVANIA.

WOOD-GRAINING MACHINE.

SPECIFICATION forming part of Letters Patent No. 466,322, dated January 5, 1892.

Application filed January 30, 1891. Serial No. 379,625. (No model.)

To all whom it may concern:

Be it known that I, PETER CASEY, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and
5 useful Improvement in Wood-Graining Machines, of which the following is a full, clear, and exact description.

My invention relates to an improvement in mechanism adapted to the treatment of soft
10 wood, &c., to cause it to resemble in appearance hard wood, such as oak, by impressing on its surface numerous indentations shaped and relatively arranged in imitation of the pores of the wood intended to be simulated.
15 Such indentations may be formed on the surface of the wood by means of a drum having on its periphery a series of cutting-edges or knife-blades or points, and on passing the wood in contact with the roller, or passing
20 the roller over the wood, the desired indentations are produced and may afterward be filled with a suitable filler.

My present invention relates to a certain novel construction of the indenting-roller,
25 and is illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of part of the periphery of the roller without the indenting-knives. Fig. 2 is a transverse section showing the knives, the section being as if on the line II II of Fig. 1. Fig. 3 is a vertical axial section of the roller. Fig. 4 is a perspective view of one of the knives.

Like symbols of reference indicate like
35 parts in each.

The object of my invention is to secure the indenting-knives rigidly and securely to the roller, which may be made of two interfitted cylindrical parts 2, and may be formed with
40 end flanges 3, as shown in Fig. 3. To hold the indenting-knives in their place, I employ key-ribs or dovetail projections 4, which extend peripherally along the roller at short intervals apart, parallel with each other, and may
45 be held in place by screws 5, the purpose of making them separate from the roller and afterward applying them thereto being to facilitate manufacture of the roller.

My invention, broadly considered, is not limited to removably securing the key-ribs to
50 the roller, but will cover their formation integral therewith. The indenting-knives are formed of steel strips 6, curved edgewise to conform to the curvature of the roller, and dovetailed at their lower edges so as to be
55 adapted to fit on the key-ribs, as shown in Figs. 2 and 4. These sections may be made long or short, as may be desired; but they are preferably made short in order to permit of their independent removal for the purpose of
60 sharpening or renewal. The upper edges of the knives are preferably sharpened, as shown in Figs. 3 and 4, and they are notched or cut away, as at 7, the notches of the several strips being arranged relatively to each other, so
65 that the prominent knife-edged portions shall be adapted to indent the wood with the desired pattern. The knife-strips are set on the roller-surface on the key-strips, which hold them securely, and when all are in place they
70 may be clamped by bolts 8, which act on the sections of the roller and draw them together. If desirable for the production of the desired pattern, the adjacent strips may be separated somewhat by interposing washers 9, Fig. 3. 75

A desirable mode of forming the several knives or strips so that they shall produce the pattern is to secure them all upon the roller, and then to etch out portions of their edges by acid, as described in John Shannon's
80 application, Serial No. 350,748, or to cut them by suitable tools; or they may be cut before they are applied to the roller.

When any one of the knives becomes worn or injured it can be removed or replaced by another of the same shape, and it is this facility in setting which constitutes one of the prime features of advantage of the improvement.

A roller constructed as I have described may be adapted to produce very intricate and
90 beautiful designs on wood, and its cheapness and simplicity of construction will commend it to those skilled in the art.

I claim—

1. In a device for indenting wood, the combination, with a roller having a series of par- 95

allel surface keys, of indenting-knives consisting of the strips set removably on said keys in parallel position and held thereby, substantially as and for the purposes described.
5

2. In a device for indenting wood, the combination, with a roller having keys removably secured to its surface, of indenting-knives

set removably on said keys, substantially as and for the purposes described. 10

In testimony whereof I have hereunto set my hand this 26th day of January, A. D. 1891.
PETER CASEY.

Witnesses:

W. B. CORWIN,
H. M. CORWIN.