

J. S. L. Hunt,
Planing Shingles.
N^o 4,227. Patented Oct. 9, 1845.

Fig. 1.

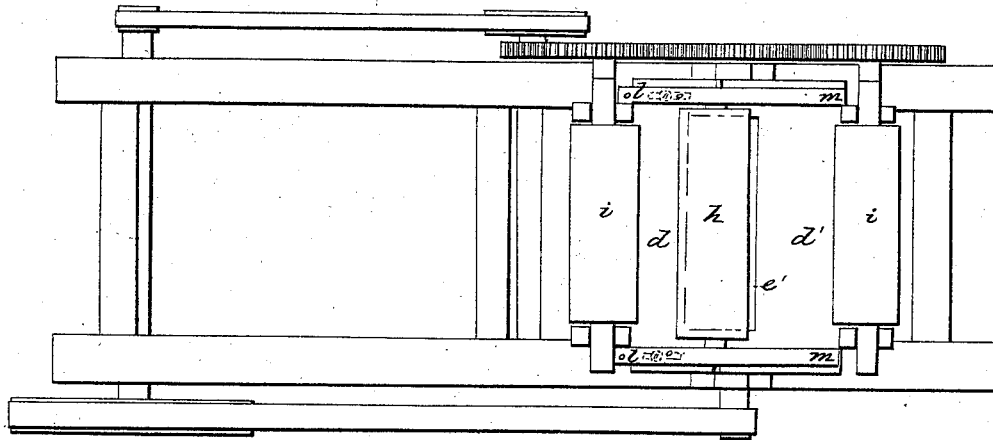
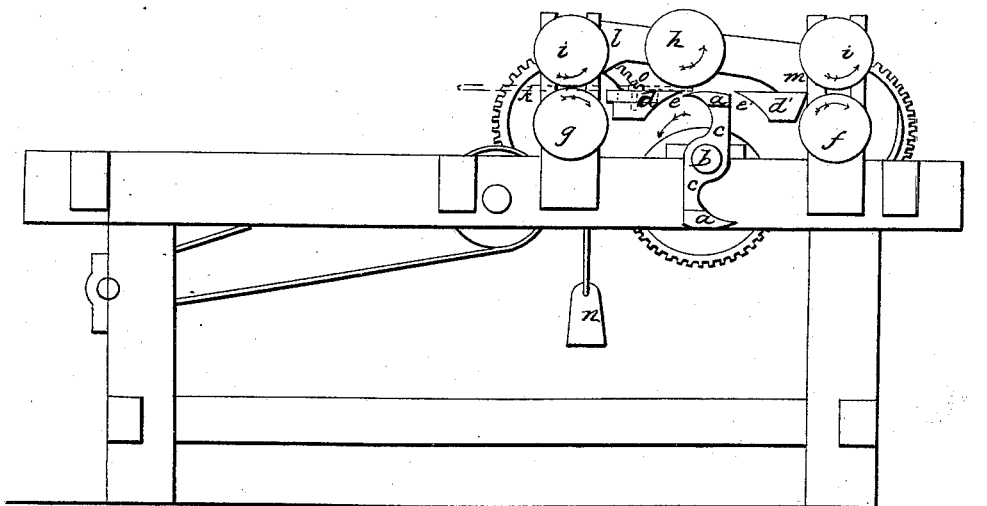


Fig. 2.



UNITED STATES PATENT OFFICE.

JOSEPH S. L. HUNT, OF BOSTON, MASSACHUSETTS.

MACHINERY FOR PLANING SHINGLES, &c.

Specification of Letters Patent No. 4,227, dated October 9, 1845.

To all whom it may concern:

Be it known that I, JOSEPH S. L. HUNT, of Boston, in the county of Suffolk and State of Massachusetts, have invented a certain
5 new and useful Improvement in Machinery for Dressing or Planing Shingles; and I do hereby declare that the nature of my invention and the manner in which it operates are fully described and represented in the following description and the drawings which
10 accompany and make part of the same and by the letters and figures marked thereon—that is to say:

My invention is calculated for planing the
15 surfaces of sawed shingles, or pieces of wood, whose thickness varies from end to end.

Figure 1 of the aforesaid drawings denotes a plan or top view of the said machine, and Fig. 2 a vertical, central, and longitudinal
20 section of it.

It consists of a series of knives *a a*, Fig 2, each applied to one of a series of arms *c c* projecting from a horizontal shaft *b* and arranged in other respects, so as to operate like
25 the knives or cylinder of a common rotary planing machine. The said shaft *b* and its knives are disposed beneath a fixed horizontal plate *d d*¹ through a rectangular opening or orifice *e e*¹ of which the knives are made
30 to play in such manner as to bring their cutting edges, as they revolve, just above the upper surface of the plate. A horizontal roller *f* is placed at one edge of the plate *d d*¹ and another and similar roller *g* at the
35 other and opposite edge of it in the positions with respect to each other and the plate, as seen in the drawing.

Directly above the central part of the perforated plate is a roller *h* whose journals are
40 supported in levers *l m*, *l m*, each of which turns vertically on a fulcrum at its end *m* and has a weight *n* hung on its end *l* by which the said roller is borne down upon, or nearly down upon, the plate *d d*¹.

There is a roller *i* placed over each of the rollers *f* and *g*, the said rollers *i i* being each pressed down by weights or other analogous contrivances which will permit them easily
45 to rise upward as occasion may require. The front part or half *d* of the perforated plate *d d*¹ may be separated from the other half and made movable or so as to be moved

toward or from the other half and be fixed in any desirable position with respect to the same or the cutters or knives by one or more
55 screws *o* passing through its edges. In this case that edge of this portion of the plate, against which the knives or cutters act, should be made sharp or reduced to an angular form, as seen at *p* in Fig. 2. The said
60 movable portion of the rest plate thus becomes a gage which is to be moved farther from or nearer to the path of the cutting edges of the rotating knives, as circumstances may require, for different kinds of
65 wood operated upon. By means of this gage I am enabled to plane very knotty or cross grained stuff in a very smooth and even manner.

The several parts of my machine, as above
70 described, are to be supported by a suitable frame and put in operation by power properly applied to them; the directions in which the feed rollers and cylinder of knives revolve being indicated by arrows marked on
75 them respectively.

The operation of my machine is as follows: A shingle, which is a thin wedge shaped piece of wood, as represented by dotted lines at *k*, Fig. 2, is passed into the
80 machine, between the feed rollers *g i* and over and upon the upper surface of the plate *d d*¹, and is borne or pressed down upon the plate by the rollers *i h* and is carried forward by the revolution of the feed rollers.
85 As it passes along over and upon the plate *d d*¹, the cutting cylinder planes or reduces its under surface. It escapes from the machine, through or between the discharging rollers *i f*, which aid in drawing it over the
90 plate *d d*¹.

My invention or improvement, and therefore that which I claim, consists in—

The employment of the perforated plate *d d*¹ in combination with the cutting cylinder
95 and feed cutters; the whole being arranged and operating substantially as set forth.

In testimony whereof, I have hereto set my signature this second day of April, A. D. 1845.

JOSEPH S. L. HUNT.

Witnesses:

R. H. EDDY,
CALEB EDDY.