G. W. Manton,

Veneer Cutter.

No. 113,071. Patented Mar. 28 1871.

Fig. 1.

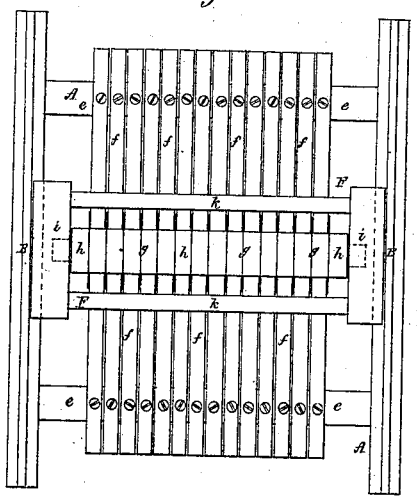


Fig. 2.

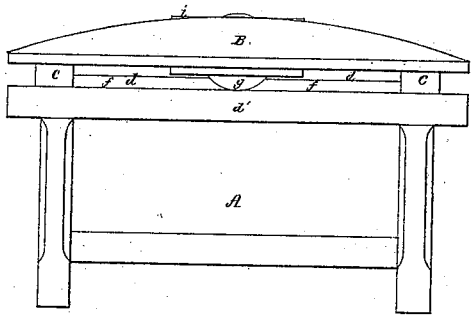


Fig. 3.

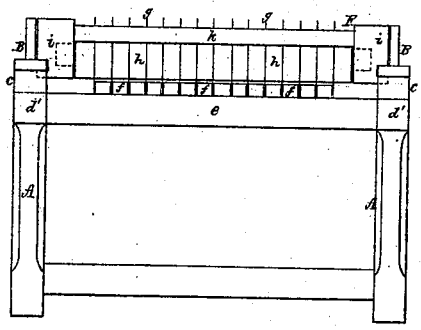


Fig. 4.

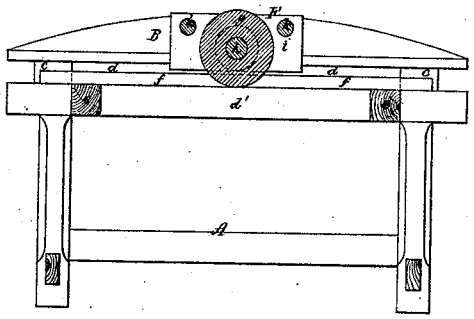
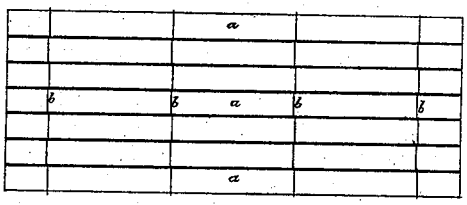


Fig. 5.



Witnesses.
S. N. Piper
L. N. Miller

Geo. W. Manton.
by his attorney.
N. Hall

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

United States Patent Office.

GEORGE W. MANTON, OF FREDONIA, NEW YORK.

Letters Patent No. 113,071, dated March 28, 1871.

IMPROVEMENT IN MACHINES FOR CUTTTING VENEERING INTO STRIPS.

The Schedule referred to in these Letters Patent and making part of the same.

To all persons to whom these presents may come:

Be it known that I, GEORGE W. MANTON, of Fredonia, of the county of Chatauqua, of the State of New York, have invented a new and useful Machine for Cutting Veneering into Strips for the manufacture of such into window-shades; and I do hereby declare the same to be fully described in the following specification and represented in the accompanying drawing, of which—

Figure 1 is a top view;

Figure 2, a side elevation;

Figure 3, a front end view; and

Figure 4, a longitudinal section of the said machine.

The veneering to be reduced to blind-slats by means of this machine is such as is usually made by cutting a spiral sheet from a round log. The sheet, as made, is usually of considerable length, the grain of the wood running transversely of it. As a consequence the sheet has to be cut transversely in order to divide it into narrow pieces or slats, which, when woven, or connected edge to edge by warp-threads, extending through a series of them, compose a window-curtain or blind.

Figure 5 is a representation of part of such a blind, the slats being shown at *a a a* and their connection-warps at *b b b*.

In constructing the machine I employ a frame, A, having two arched guides B B arranged above it and upon standards *c c*, as shown, in order that there may be an open space, *d*, between each arched guide and the frame-rail *d'*, immediately beneath it.

Between the two arched guides, which are horizontal and parallel to each other, there is arranged upon the top of the frame A, or the upper cross-girts *e e* thereof, a series of stationary bed-bars, *f f f*. These bars are all parallel to one another, and each is at a short distance from that next to it, and is fastened to the girts *e e*.

A series of disk-knives, *g*, arranged vertically, and at equal distances apart, and so as to extend into the openings or spaces between the bed-bars *f*, is fixed on a horizontal shaft, *h*, having its journals supported in bearings in the two heads *i i*, connected by cross-bars *k k*, so as to compose with such a frame F, as shown.

The heads *i i* are grooved on their outer sides to receive and slide upon the base of the arched guides B B.

The strip of veneering to be cut by the machine is introduced through either of the open spaces *d*, and thence projected upon the series of bed-bars, and made to rest against one or two of the standards by which the arched guides are supported.

This having been done, the frame or carriage of the series of rotary disk-knives is to be drawn or pushed forward so as to cause the several knives to crowd the sheet of veneering closely down upon the bed-bars and sever such sheet, or the part of it over which the knives may pass, into a series of strips or slats. The strip of veneering may next be advanced a further distance into the machine, to the necessary extent, and be further operated on by the knives.

I am aware that, for cutting paper or leather into strips or bands, it has been customary to employ a series of rotary knives and a grooved table, and therefore I make no claim to such in the abstract.

My machine, besides having the series of separate bed-bars, has the arched guides, arranged with the cutter-frame or carriage, and upon standards, as described, in order to render the machine adaptable to the special operation described on a sheet of veneering of the kind explained; therefore

What I claim as my invention is—

The combination of the rotary series of disk-knives *g*, the series of stationary bed-bars *f*, the cutter-carriage or frame F, and the arched guides B, arranged with and applied to the supporting-frame A, as and for the purpose as specified.

GEORGE W. MANTON.

Witnesses:

D. A. CLARK,

CARLTON ROBERTS.