J. W. MILLET.

Machine for Making Chair-Rounds.

No. 161,144. Patented March 23, 1875.

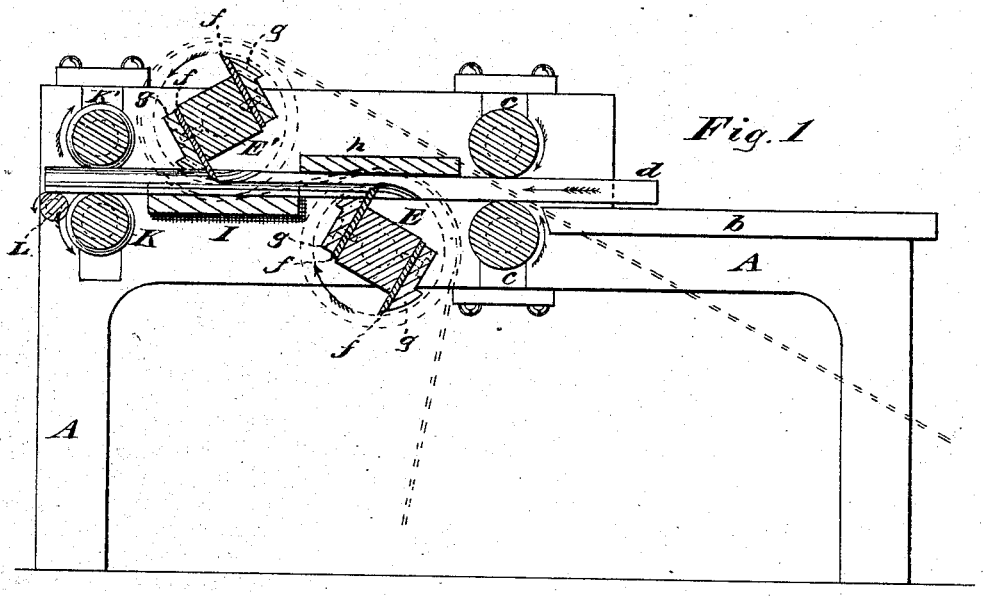


Fig. 1

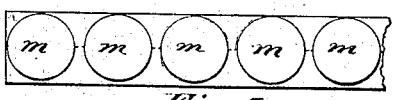


Fig. 5

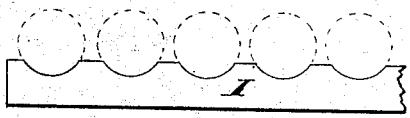
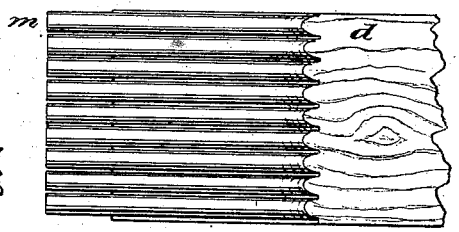


Fig. 2

Fig. 4



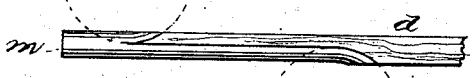


Fig. 3

Witnesses:
Henry S. Barker
F. S. Copeland

Inventor,
John W. Millet,
By J. W. Latcher,
Atty

UNITED STATES PATENT OFFICE.

JOHN W. MILLET, OF JOHNSTOWN, NEW YORK, ASSIGNOR OF ONE-HALF HIS RIGHT TO LOUISA BANKS PETTYJOHN, OF SAME PLACE.

IMPROVEMENT IN MACHINES FOR MAKING CHAIR-ROUNDS.

Specification forming part of Letters Patent No. **161,144**, dated March 23, 1875; application filed September 29, 1874.

To all whom it may concern:

Be it known that I, JOHN W. MILLET, of Johnstown, in the county of Fulton and State of New York, have invented an Improvement in Machines for Making Chair-Rounds, of which the following is a specification:

The object of my invention is to plane both sides of blanks in the operation of making wooden chair-rounds, rods, pins, or dowels from the same at one operation; and my invention consists of the combination of two cutting-cylinders with a fluted guide-bed just in rear of the first rounding-cylinder and a suitable feeding mechanism.

Figure 1 is a longitudinal central section of my invention. Fig. 2 is a front-end view of the fluted guide-bed, representing the rounds in dotted lines. Fig. 3 shows the blank partially planed by the fluted cylinders, represented by dotted circles. Fig. 4 exhibits a view from beneath, represented in edge view in Fig. 3; and Fig. 5 is an end view of the same.

To enable those skilled in the art to construct my invention, I will proceed to describe it, as follows:

A, Fig. 1, represents the frame of a planer; *b*, the feed-bed of the same. *c c* are two feed-rollers, geared together in the ordinary way, for the purpose of carrying the boards *d* through the planer, as will be readily understood. E and E′ are revolving heads of the usual form, both of which are provided with fluted knives *f f* and caps *g g*, and secured thereto by means of bolts, in the ordinary way. A bearing or pressure plate, *h*, is placed above the cylinder E, underneath which the board *d* is carried, in order to receive the upward action of the cylinder E. A bed, I, is secured underneath the cylinder E′, and at a suitable distance therefrom, for the purpose of planing the upper half of the rounds, said bed I being fluted to correspond with the fluted cylinder E E′, and better shown in Fig. 2.

It will be seen that the bed I acts as a sure guide to conduct the board to the cylinder E′, without allowing it any lateral deviation.

A pair of grooved rollers, K K′, are placed in rear of the cylinders E′ and bed I, which draw the rounds through the machine as they are drawn in by the first set of rollers *c c;* a roller, L, revolved in suitable bearings just in rear of the lower grooved roller K, which has an upward pressure against the rounds *m*, tending to bear their inner ends down upon the fluted bed I, in order to prevent said rounds from chattering when the cutter E′ is rotated.

The arrows indicate the motion of the several working parts of the planer represented in the drawings.

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

1. The combination, in a chair-round planer, of the fluted bed I, rollers K K′, and roller L, as shown and described.

2. In combination with the cutters E E′, the fluted bed I, roller L, rollers K K′, and feed-rollers *c c*, as and for the purpose set forth.

JOHN W. MILLET.

Witnesses:
JOS. PETTYJOHN,
J. W. LATCHER.