

E. BENJAMIN.
Machine for Planing Wood.

No. 196,327.

Patented Oct. 23, 1877.

FIG. 1

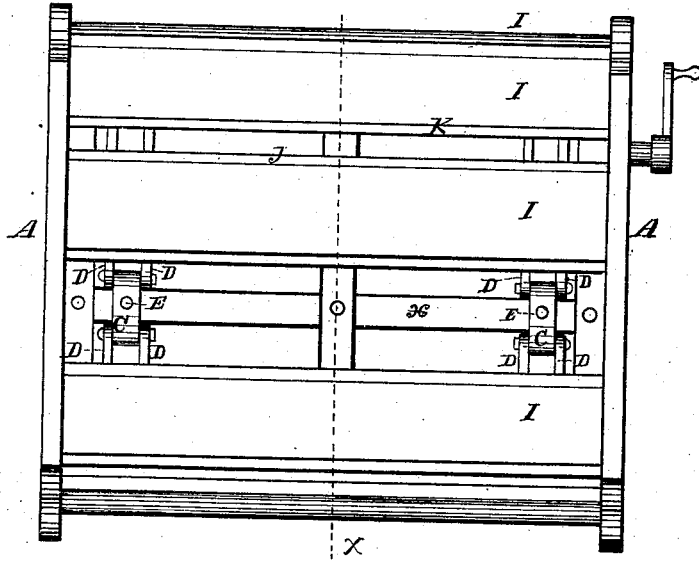


FIG. 2

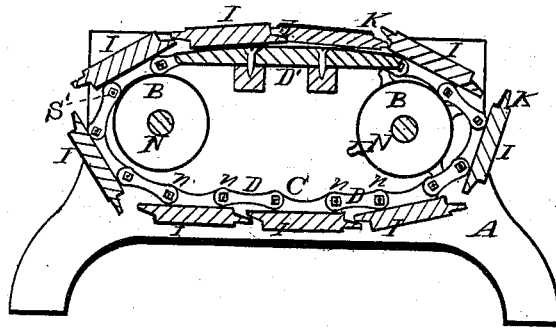


FIG. 3

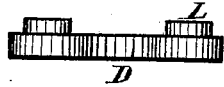
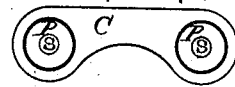


FIG. 4



ATTEST:
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UNITED STATES PATENT OFFICE.

EDWIN BENJAMIN, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN MACHINES FOR PLANING WOOD.

Specification forming part of Letters Patent No. **196,327**, dated October 23, 1877; application filed February 13, 1877.

To all whom it may concern:

Be it known that I, EDWIN BENJAMIN, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Endless Planer-Beds, of which the following is a specification:

The nature of the present invention consists in carrying slats or plates for planers, which have their edges formed to overlap each other where they pass over the stationary bed, in combination with the feed-gear of a planing-machine, whereby dust and dirt or shavings are prevented from falling through between the slats or plates of the carrying-bed, and interfering with the working of the mechanism which drives the bed, as will be hereinafter fully described and shown.

In the drawings, Figure 1 represents a top or plan view of my improvement in endless planer-beds; Fig. 2, a transverse section thereof on line *x*, Fig. 1. Figs. 3 and 4 show the form of the links of the endless chain for carrying the endless bed.

These links are shown as best for the purpose; but they are not claimed to be new.

A represents the sides of the frame of a planer-bed of ordinary construction, and B B are the rollers over which the endless bed passes. The slats I are constructed to overlap at their edges, where they pass over the sta-

tionary bed or support D, to prevent shavings and dust from falling through between the slats and clogging or interfering with the proper working of the gearing below. The slats I are bolted fast to the links, so as to move uniformly at each end when the endless chain composed of the links is put in motion. The slats I, after leaving the bed D, separate a little distance, so as to discharge any dust there may be in their joints. The plates I are to be made of iron, planed in parallelogram forms, and should be so attached to the endless chain as to operate steadily and evenly, and should be strong enough to carry any lumber to be planed. The feed-rollers driving the planer-bed are shown at B B.

I am aware that endless planer-beds are old devices when formed of flat sections having square edges. I therefore confine myself to the construction of parts as described and shown.

I claim and desire to secure by Letters Patent—

The slats or plates I, provided with overlapping edges, in combination with the feed-gear B B of the planer, as set forth.

EDWIN BENJAMIN.

Witnesses:

G. L. CHAPIN,
O. H. ADIX.