

(No Model.)

J. R. ALLGIRE.

MACHINE FOR CUTTING AND PRINTING VENEER PACKAGE BLANKS.

No. 506,837.

Patented Oct. 17, 1893.

Fig. 3.

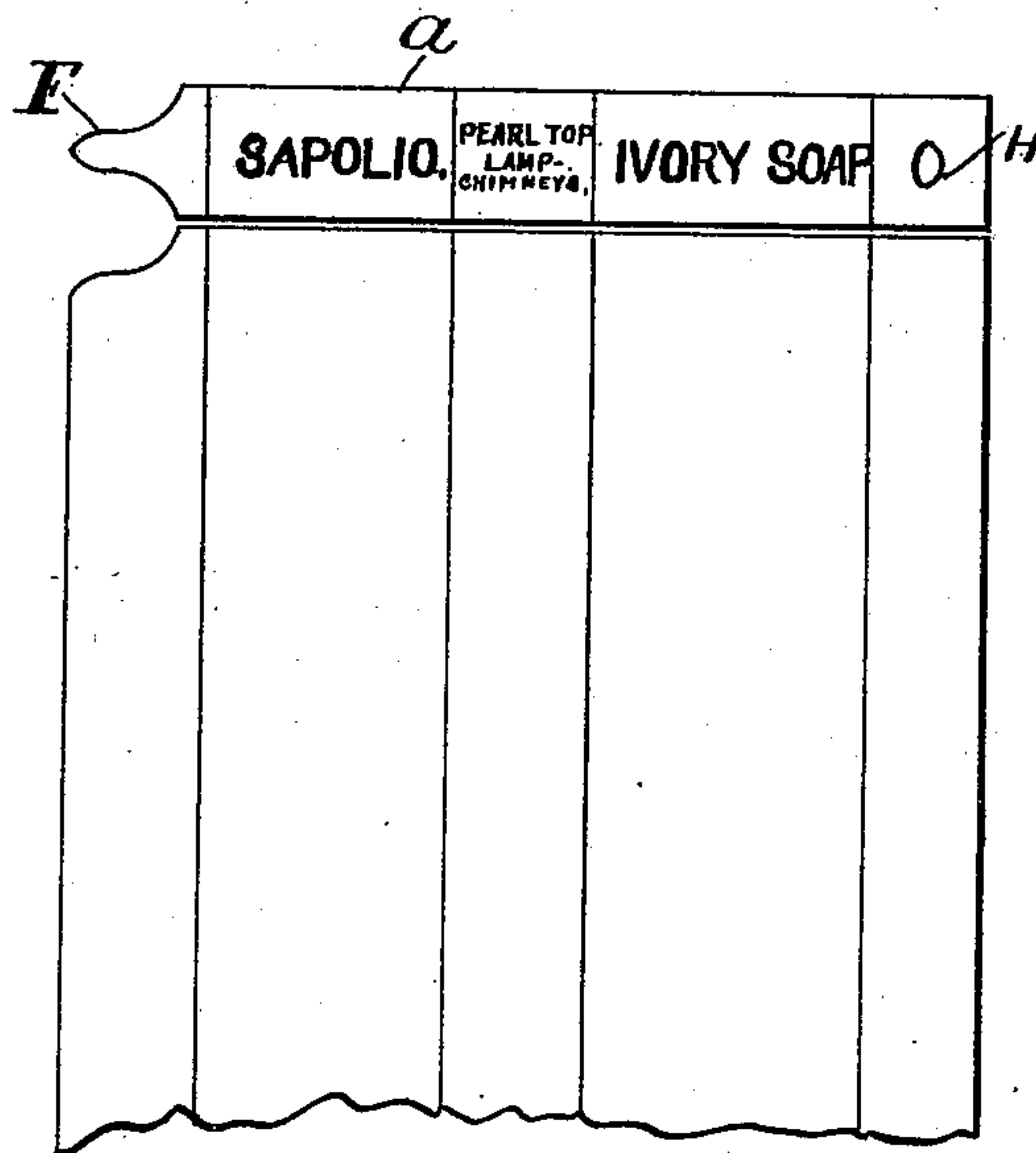
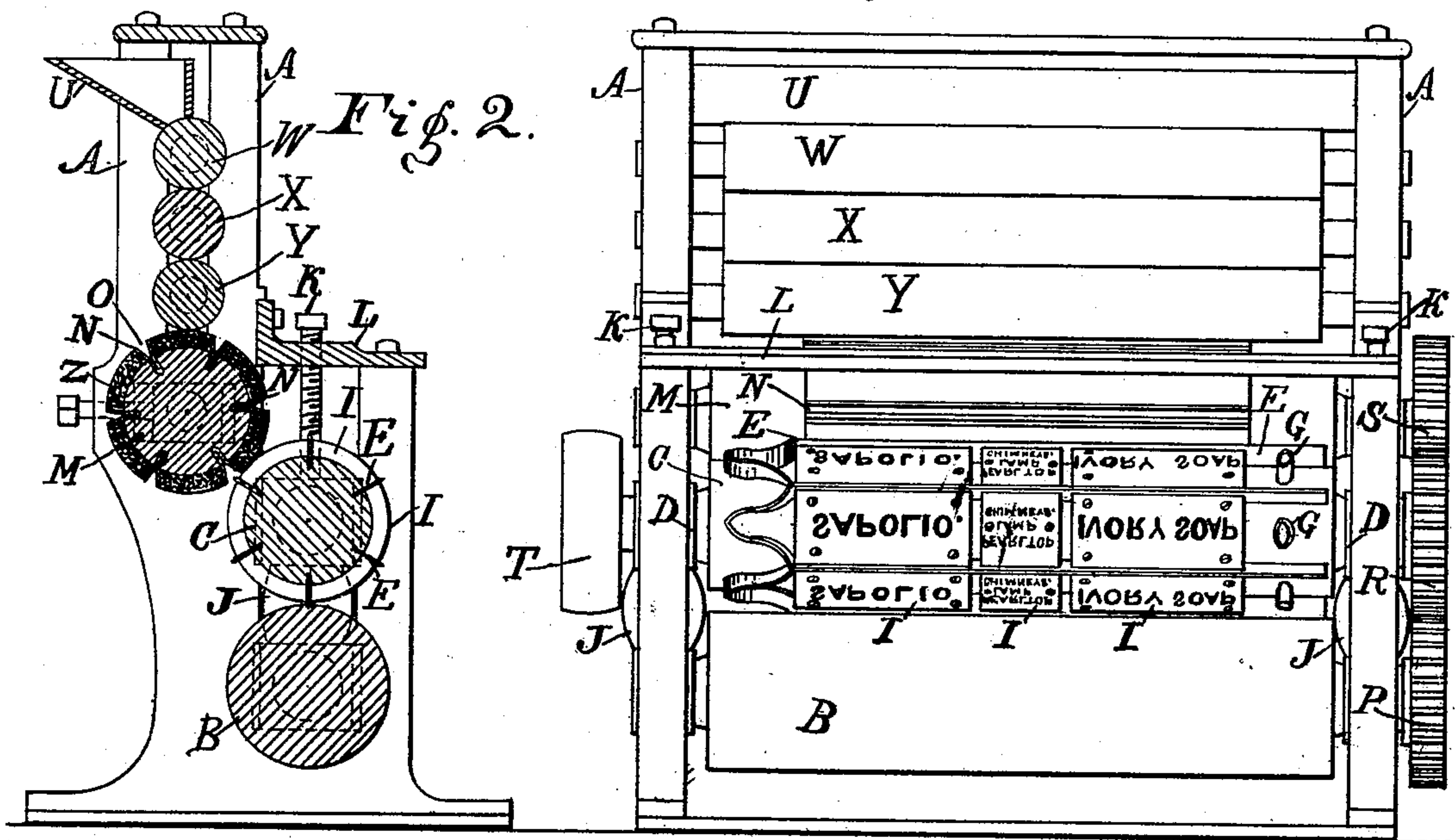


Fig. 1.



Witnesses:

V. M. Hood.

Daniel P. McNeil.

Inventor:

Inventor:
James R. Allgire.

By *W. P. Hood*
Atty.

UNITED STATES PATENT OFFICE.

JAMES R. ALLGIRE, OF INDIANAPOLIS, INDIANA, ASSIGNOR, BY DIRECT
AND MESNE ASSIGNMENTS, TO FRANK H. MCKINNIE, OF PITTSBURG,
PENNSYLVANIA.

MACHINE FOR CUTTING AND PRINTING VENEER-PACKAGE BLANKS.

SPECIFICATION forming part of Letters Patent No. 506,837, dated October 17, 1893.

Application filed March 25, 1893. Serial No. 467,655. (No model.)

To all whom it may concern:

Be it known that I, JAMES R. ALLGIRE, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented a new and useful Improvement in Machines for Cutting and Printing Veneer-Package Blanks, of which the following is a specification.

My invention relates to an improved machine for cutting from a sheet of veneer a series of blanks adapted to form a veneer-package for packing lamp-chimneys, and like articles; said blanks being printed at the same time that they are cut from the sheet.

The object of my improvement is, to provide, in connection with a series of knives and a series of type-forms mounted on the cutting-roll, and a roller for inking said types, means for retaining the material forming the inking surface of the ink-roll in position, and for preventing the inking of the knife edges, all as hereinafter fully set forth.

The accompanying drawings illustrate my invention.

Figure 1 represents a front elevation of the machine. Fig. 2 represents a central vertical section. Fig. 3 represents a plan of one of the veneer-blanks and a portion of the sheet from which it is cut.

In the drawings, A, A, indicate the sides of the main-frame of the machine. B, indicates a metallic cylindrical platen-roll mounted in bearings in the main-frame.

C, indicates the cutting roll, formed preferably of metal, and mounted in bearings D, D, resting in the slotted sides of the main frame, above and opposed to the roll B.

E, E, indicate a series of thin knives, set in the periphery of roll C, so as to project radially therefrom, and extending parallel with the axis thereof except at one end where they are bent, to form the narrow tip, F, of the blank.

Near one end of roll C, arranged centrally between knives E, is a series of hollow cylindrical cutters, G, for forming the opening, H, in the blank.

Secured to the surface of roll C, between the knives E, by means of screws or other suit-

able removable fastenings, is a series of removable type-forms, I, I, I.

The arrangement of the knives E and cutters G, and the type-forms I, is such that the edges of the knives and the cutters project radially beyond the type-forms sufficiently to cut through a sheet of veneer; and the arrangement of rolls B and C is such that the edges of the knives contact strongly with the surface of roll B; the bearings D, in which roll C is mounted being yieldingly sustained by blocks, J, J of rubber or like material, and being forced downward by set-screws K, K, mounted in the cap-plate L, forming a part of the main-frame.

The inking-roll, for inking the type-forms I, is mounted in bearings in the main-frame so as to contact with the type-forms, and is constructed as follows:

M, is a cylinder, preferably of hard-wood. Mounted at regular intervals in the periphery of said cylinder is a series of metallic strips, N, N, folded lengthwise and the folded edge inserted in longitudinal slots in the periphery of the cylinder so as to leave the free edges projecting radially therefrom. The edges of said strips are then bent apart so as to form V shaped slots, O, corresponding in number and distance apart with the knives E, in roll C. The space between the strips N, is now filled with ink-roll composition, Z, molded in position, and forming a smooth cylindrical surface flush with the edges of the strips N; the ink-roll compound firmly adhering to the surface of the wooden cylinder, and being confined and sustained at the edges by the metallic strips N. The inking-roll thus formed is provided at each end with suitable journals which are mounted in bearings in the main-frame, and are adjustable toward and from the cutting-roll so as to press the inking-roll firmly against the type-forms thereon. The journals of rolls B, C, and the inking-roll, are connected by gear-wheels P, R and S, so as to revolve in unison; motion being imparted to the cutting cylinder by means of a driving pulley T.

An ink-trough, U, is arranged in the upper part of the machine-frame and the ink there-

from is distributed upon the inking-roll by means of a train of distributing-rollers W, X, Y.

The operation of my machine is as follows: Ink being supplied to and evenly distributed 5 upon the inking-roll, and said roll coming in contact with the type-forms on the cutting-roll, said forms are inked. As the inking-roll and cutting-roll revolve in contact, the edges of the knives E enter the V shaped slots, O, 10 in the inking-roll and are thereby protected from the ink, and the ink-roll compound is preserved from injury from the cutting edges of the knives. The sheet of veneer, having been previously scored to form the corners of 15 the package, as illustrated by the cross lines in Fig. 3, is passed between rolls B and C, and is cut into strips, printed and shaped, as illustrated at a, Fig. 3.

I claim as my invention—

In a machine for cutting and printing veneer-blanks, the combination of the cutting-roll having a series of longitudinal radial knives set therein and a series of type-forms secured between said knives, and the inking-roll consisting of a cylinder having a series of 25 metallic strips set in the periphery of the roll and extending longitudinally thereof and radially therefrom, said strips forming retaining walls for the edges of the material forming the face of the inking-roll, and forming 30 also narrow slots adapted to receive the edges of the cutting knives, substantially as set forth.

JAMES R. ALLGIRE.

Witnesses:

H. P. HOOD,
V. M. HOOD.