

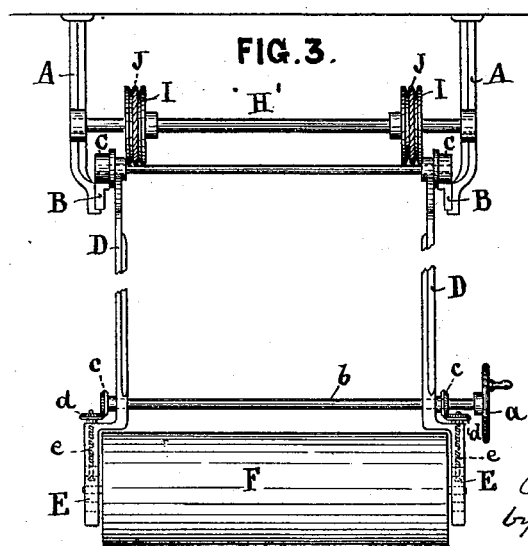
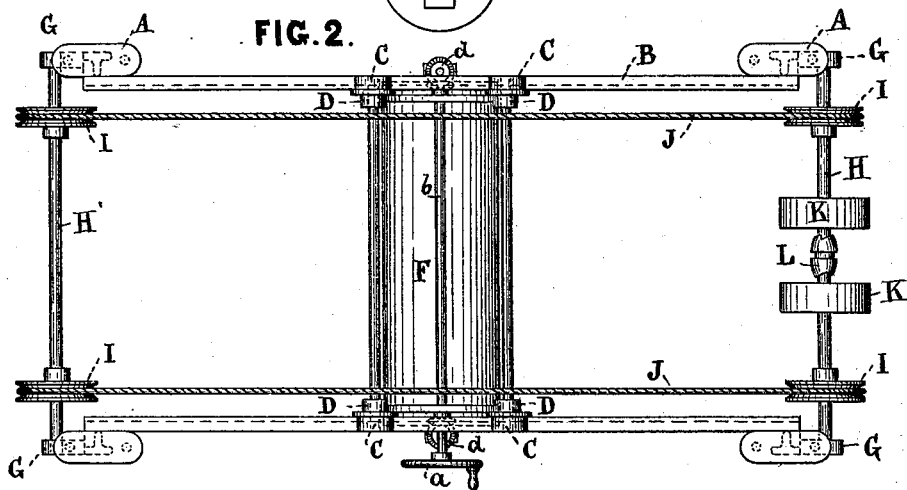
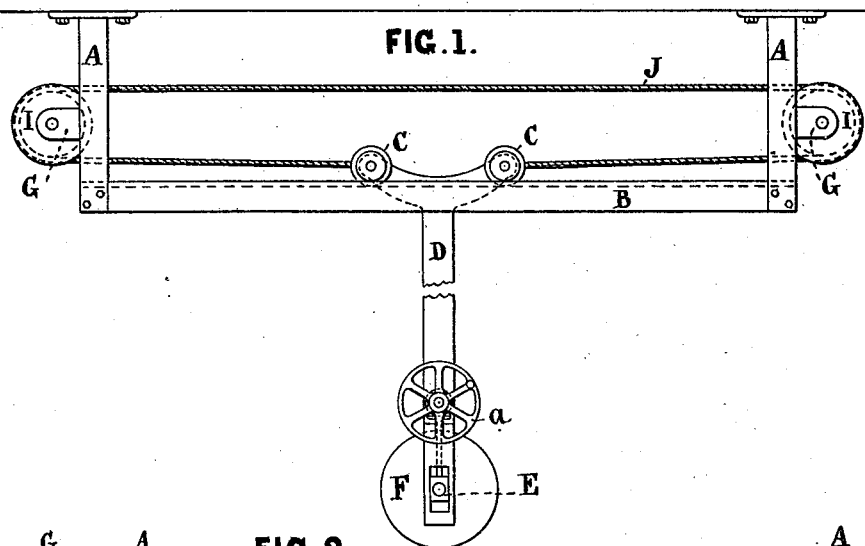
(No Model.)

J. BUDD.

MACHINE FOR TRANSFERRING THE GRAIN OF WOOD UPON GLASS.

No. 261,203.

Patented July 18, 1882.



Witnesses.
W. Blanta.
T. Seary

Inventor,
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UNITED STATES PATENT OFFICE.

JAMES BUDD, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO THE GLASS
VENEER COMPANY, OF MAINE.

MACHINE FOR TRANSFERRING THE GRAIN OF WOOD UPON GLASS.

SPECIFICATION forming part of Letters Patent No. 261,203, dated July 18, 1882.

Application filed April 20, 1882. (No model.)

To all whom it may concern:

Be it known that I, JAMES BUDD, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Machines for Transferring the Grain of Wood upon Glass, of which the following is a specification.

The object of my invention is to produce a means of transferring upon glass the exact representation of the grains of wood of any variety.

The invention consists in passing a roller which is covered with a suitable composition over the surface of the wood to be imitated, by which the grain of the wood is delineated upon the roller, and then passing the said roller over a plate of glass which is coated with a suitable dye to correspond with the body of the wood to be imitated, by which means the exact imitation of the grain of the wood is transferred to the glass plate.

Referring to the accompanying drawings, Figure 1 is a side view of a machine embodying my invention. Fig. 2 is a plan or top view, and Fig. 3 is an end view of the same.

A A are supports securely fastened to the ceiling or an upper frame-work.

To the supports A A are secured the horizontal rails or bars B B, upon which travel the wheels C of a hanging frame, D D.

To the lower ends of the frame D D is journaled the shaft of a roller, F, in adjustable bearings E E, which latter are raised and lowered, as occasion requires, by means of screws e e, attached to the bearings, and provided at their upper ends with bevel-gears d, engaging with the gears c on a shaft, b, which is operated by a hand-wheel, a.

To the hangers or supports A are connected bearings G, which carry the shafts H H', on which are secured pulleys I. These pulleys carry a rope or chain, J, the ends of which are attached to the upper parts of the frame D, as

shown in Fig. 1, by means of which the frame D, carrying the roller F, is moved to and fro lengthwise of the machine. The shaft H is fitted with driving-pulleys K K, to which motion is imparted by belting from any suitable source. Couplings L are also provided on shaft H in any well-known manner for shifting the motion of the pulleys as required.

The transferring-roller F is of a similar construction and composition with the ordinary printer's roll, and in operation is made to pass over the surface of the wood to be imitated, thus taking up the particular configuration of the grain of such wood. The wood is then removed and a plate of glass, which has been previously coated with a peculiar dye representing the body of the wood is passed over by the roller F, thus transferring to the glass the configuration of the grain as taken from the wood.

The roller F may be of any diameter or length required for the size of the glass to be operated upon. The adjustable bearings E enable the roller F to be accurately adjusted to glass of different thicknesses as required.

What I claim as my invention is—

1. The transferring-roller F, fitted in adjustable bearings E, in combination with a reciprocating frame, D, substantially as and for the purpose set forth.

2. The combination, with the bearings E, of the screw e, bevel-gears c d, and shaft b, secured in the frame D, as set forth.

3. The combination of the frame D, wheels C, rails B, rope or chain J, and pulleys I, as and for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JAMES BUDD.

Witnesses:

J. H. ADAMS,
E. PLANTA.