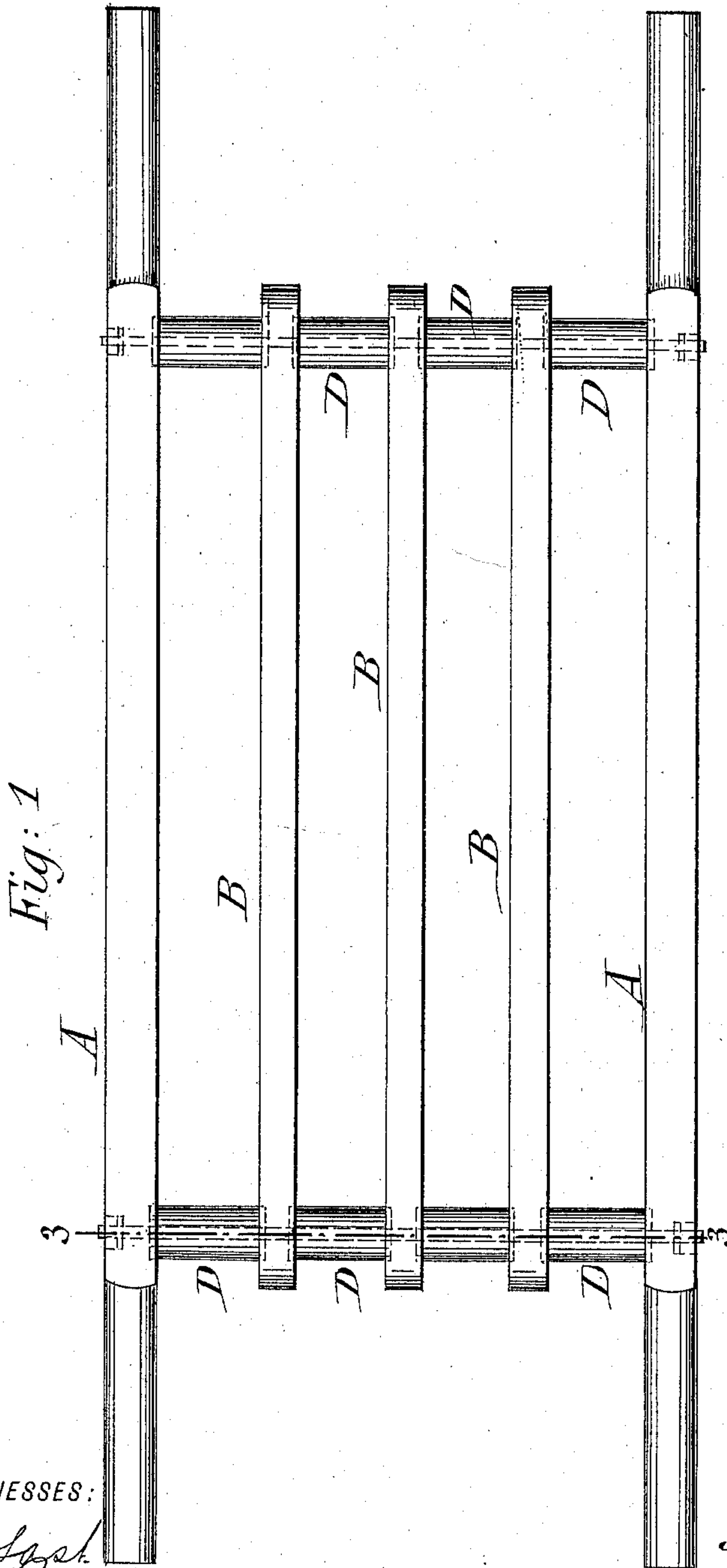


(No Model.)

J. KNOTT.
DYEING HORSE.

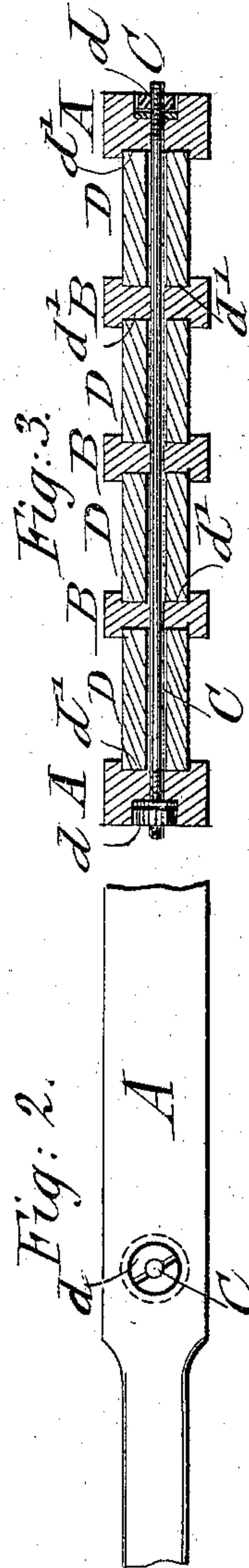
No. 585,935.

Patented July 6, 1897.



WITNESSES:

Ol. Syst.
Geo. H. J. J. J.



INVENTOR

Jacob Knott

BY

Loeueck Reger

ATTORNEYS.

UNITED STATES PATENT OFFICE.

JACOB KNOTT, OF PATERSON, NEW JERSEY.

DYEING-HORSE.

SPECIFICATION forming part of Letters Patent No. 585,935, dated July 6, 1897.

Application filed October 21, 1896. Serial No. 609,534. (No model.)

To all whom it may concern:

Be it known that I, JACOB KNOTT, a citizen of the United States, residing at Paterson, in the county of Passaic and State of New Jersey, have invented certain new and useful Improvements in Horses for Dyeing Establishments, of which the following is a specification.

This invention relates to an improved horse for carrying the silk or the hanks in dyeing establishments from one dye-vat to the other, said horse being constructed in such a manner that the dye liquor cannot attack the transverse brass bolts by which the longitudinal and transverse pieces of these horses are connected with each other; and the invention consists of a horse for dyeing establishments composed of longitudinal bars, the outerside bars of which are made longer than the middle bars, so as to form handles, and of transverse tie-rods passing through the longitudinal bars, and wooden sleeves placed on said transverse tie-rods, said sleeves being fitted into corresponding recesses or sockets in the bars, so as to protect the tie-rods against dye liquor.

In the accompanying drawings, Figure 1 represents a plan view of my improved horse for dyeing establishments. Fig. 2 is a side elevation of a portion of the same, and Fig. 3 is a vertical transverse section on line 3 3, Fig. 1.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents the side bars, and B B the intermediate longitudinal bars, of my improved horse for carrying the hanks in silk or other dyeing establishments. The side bars A are of greater length than the intermediate bars B B and are rounded off at their ends, so as to form handles for carrying the horse and load on the same. The ends of the intermediate bars are rounded off, so as to present no projecting corners. The parallel side and intermediate bars A and B, respectively, are connected by transverse tie-rods C, which are prefer-

ably made of iron and which are threaded at their ends and attached by means of washers and screw-nuts *d*, set into recesses of the side bars A. The side and intermediate bars are spaced at suitable distances apart and retained on the tie-rods at a uniform distance from each other by means of cylindrical sleeves D, the ends of which are set into sockets *d'* at the inner sides of the side bars A and at both sides of the intermediate bars B, so that when the side and intermediate bars are connected by the tie-rod C the tie-rods are entirely inclosed by the wooden sleeves, and thereby the access of the acid dye liquor to the connecting-rods is entirely prevented, and hence the horse lasts a greater length of time, as no access is given at the joints of the sleeves to the corroding dye liquor. The iron tie-rods being thus protected have the advantage that rust formed on the same is not liable to discolor the dyed silk or hanks that are carried on the horses from one dye-vat to the other, so that a cleaner and more durable horse for dyeing and other establishments is obtained.

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

A horse for dyeing establishments, consisting of longitudinal side bars, intermediate bars parallel with the side bars, transverse tie-rods provided with means for attaching the same to the side bars, and intermediate sleeves interposed between the side and intermediate bars and each set at their ends into two facing sockets in the adjacent sides of the side and intermediate bars, each end of said longitudinal side bars projecting beyond the intermediate bars to form a handle substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

JACOB KNOTT.

Witnesses:

PAUL GOEPEL,
GEO. L. WHEELLOCK.