No. 672,367. Patented Apr. 16, 1901.

J. A. & H. W. HOCK.

CONVEYER AND REGULATOR FOR SKELP SHEETS IN PIPE MANUFACTURE.

(Application filed Dec. 10, 1900.)

(No Model.)

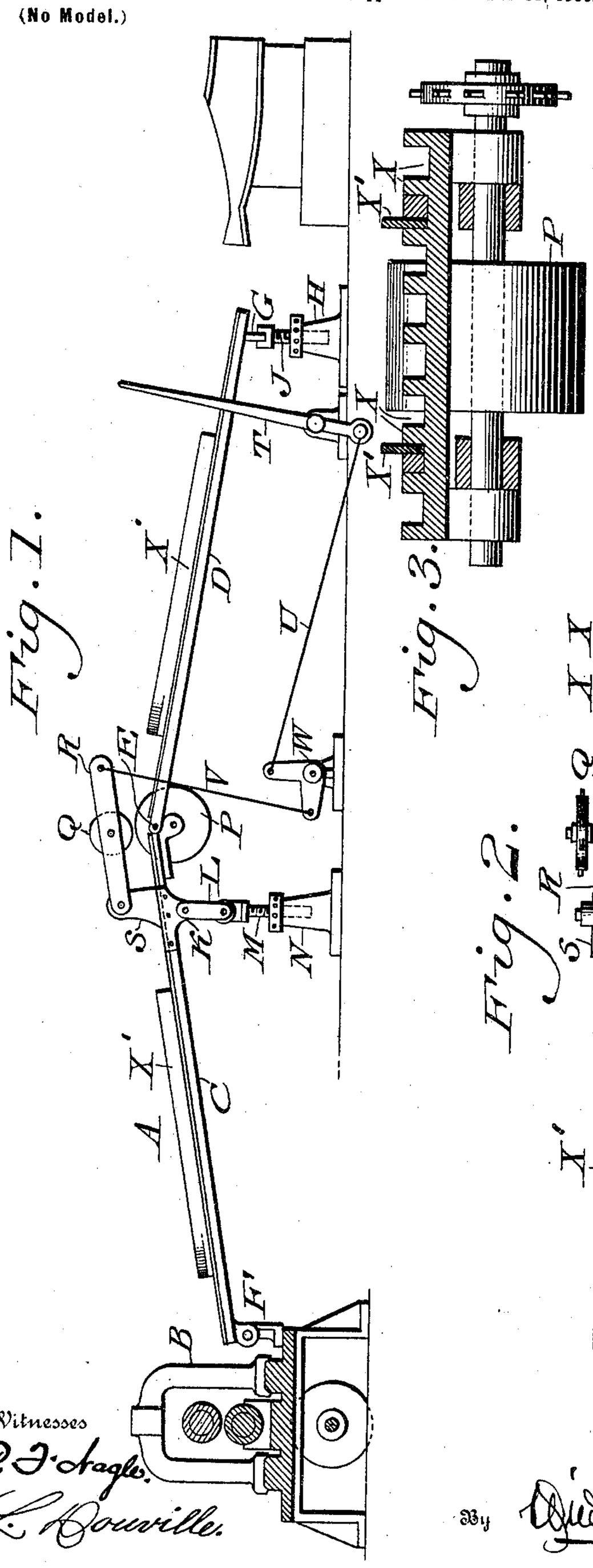

Fig. 1.

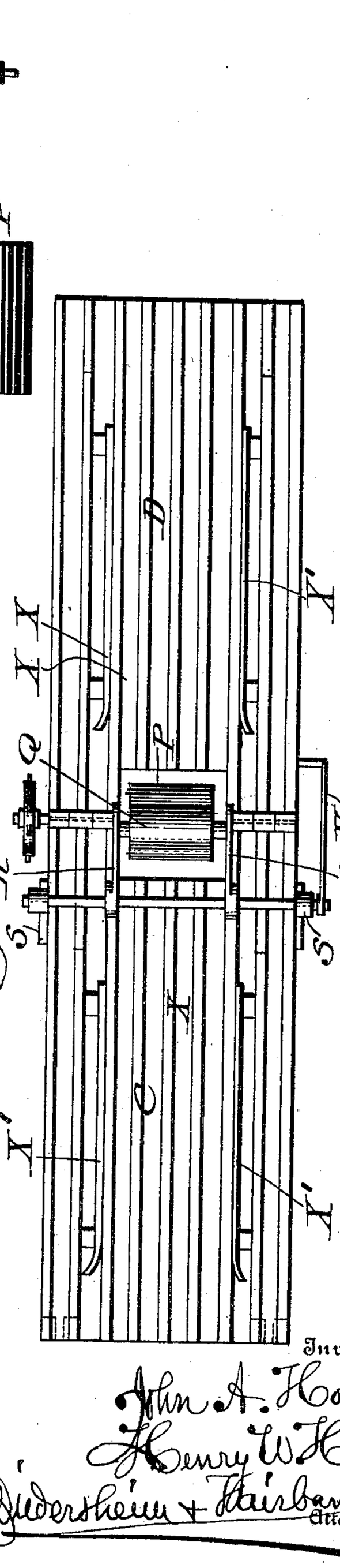

Fig. 3.

Fig. 2.

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UNITED STATES PATENT OFFICE.

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CONVEYER AND REGULATOR FOR SKELP-SHEETS IN PIPE MANUFACTURE.

SPECIFICATION forming part of Letters Patent No. 672,367, dated April 16, 1901.

Application filed December 10, 1900. Serial No. 39,360. (No model.)

To all whom it may concern:

Be it known that we, JOHN A. HOCK and HENRY W. HOCK, citizens of the United States, residing at Chester, in the county of Delaware, State of Pennsylvania, have invented a new and useful Improvement in Conveyers and Regulators for Skelp-Sheets in Pipe Manufacture, of which the following is a specification.

Our invention consists of means whereby a sheet having been passed from the scarfing-rolls may be carried to the skelping-former so as to present the sheet to the latter in the line of its natural flow, and thereby lessen its resistance from being drawn through said former, thus facilitating the manufacture of the skelps and causing the same to be of a superior order, the novel features being pointed out in the claims which follow the specification.

Figure 1 represents a side elevation of a conveyer and regulator for skelping sheets in pipe or flue manufacture embodying our invention. Fig. 2 represents a top or plan view thereof. Fig. 3 represents a transverse section thereof.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings, A designates a table which extends from the skelping-rolls B and is formed in sections C D, which are centrally united by the hinged joint E, it being noticed that said sections converge upwardly. The lower end of the section C is carried by the hinged stand F, the latter being supported on the bed-plate of the rolls B. The lower end of the section D rests upon a bar G, which is carried by the stands H, a member of which consists of the screw J, whereby the height of the adjacent end of the section D may be adjusted.

Depending from the upper or inner end of the section C are ears K, to which are pivoted the links L, which latter are pivoted to the screw M of the stand N, whereby said end of the section C may be adjusted in height.

Owing to the several instrumentalities named, the angles of the sections C D may be regulated or adjusted as desired. On the inner end of the section C is mounted the driving-roller P, above which is the pressure-roller Q, the latter being mounted on the swinging frame R, one end of which has its bearings on the brackets S, the latter being connected with the section C. The shaft of the roller P carries a sprocket-wheel around which may be passed a sprocket-chain, to which power may be communicated in any suitable manner.

In order to raise and lower the arms R, we employ the hand-lever T, which by means of the connections U V and the intermediate elbow-lever W serves to operate said arms, also permitting the roller Q to be pressed firmly down toward the driving-roller P, so that the sheet will be positively carried through said rollers from the section C and directed upon the section D. The upper surface of the sections of the table is provided with alternate ribs and grooves, as at X, so as to conveniently permit bars X′ of iron or metal to be sustained in upright position and allow them to project above the tops of the ribs, thus forming guards for the sheet in its passage over the table, said bars being firmly held in position by blocks which enter said grooves and bear against said bars and the adjacent walls of said grooves, as clearly shown in Figs. 1 and 2.

It will be seen that as the sheet leaves the scarfing-rolls it is directed upwardly on the section C and engaged by the rollers P Q, which carry said sheet through the same and direct it upon the section D, so that it will slide down the latter and by its natural flow be conducted with greater facility and more accuracy of result into the skelping-former, thus also causing the skelps to be of superior nature.

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

1. An appliance adapted to be placed between scarfing-rolls and a skelping-former, whereby a sheet leaving said rolls may be guided, impelled forward and controlled to impart to it the proper position for a natural flow into said former, and consisting of a table formed in sections pivotally connected at their inner ends and adjustably supported at their outer ends, a driving-roller mounted on one of said sections, an operating-wheel on the shaft thereof, a pressure-roller mounted on said section above said driving-wheel, and means for raising and lowering said pressure-roller.

2. A table adapted to be interposed between scarfing-rolls and a skelping-former, the same being formed of sections which are hinged together and adapted to converge and are provided with means for adjusting their height and angularity, a driving-roller mounted on one of said sections, an operating-wheel on the shaft thereof, a pressure-roller on said section above said driving-wheel, and means for raising and lowering the pressure-roller.

3. A table adapted to be placed between scarfing-rolls and a skelping-former, consisting of sections pivotally connected at their inner ends and adjustably supported at their outer ends and intermediate of the same, a driving-roller on one of said sections and a pressure-roller for said driving-roller, one of said sections being adapted to incline toward said skelping-former.

4. A table adapted to be placed between scarfing-rolls and a skelping-former, the same consisting of sections pivotally connected at their inner ends and adjustably supported at their outer ends and intermediate of their ends, a driving-roller mounted on one of the sections, adjacent to the connecting-joint of the latter, means for operating said roller, a pressure-roller mounted on said section, and means for raising and lowering said pressure-roller.

5. A table adapted to be placed between scarfing-rolls and a skelping-former, the same consisting of sections pivotally connected at their inner ends and adjustably supported at their outer ends and intermediate of their ends, a driving-roller mounted on one of the sections adjacent to the connecting-joint of the latter, means for operating said roller, an arm mounted on said section, a roller having its bearing on said arm, and means for raising and lowering said arm.

6. A table for the purpose described, formed of a face of alternate ribs and grooves, upwardly-projecting guiding-bars in said grooves and blocks in said grooves bearing against said bars and the adjacent walls of said grooves for holding said ribs firmly and adjustably in position.

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