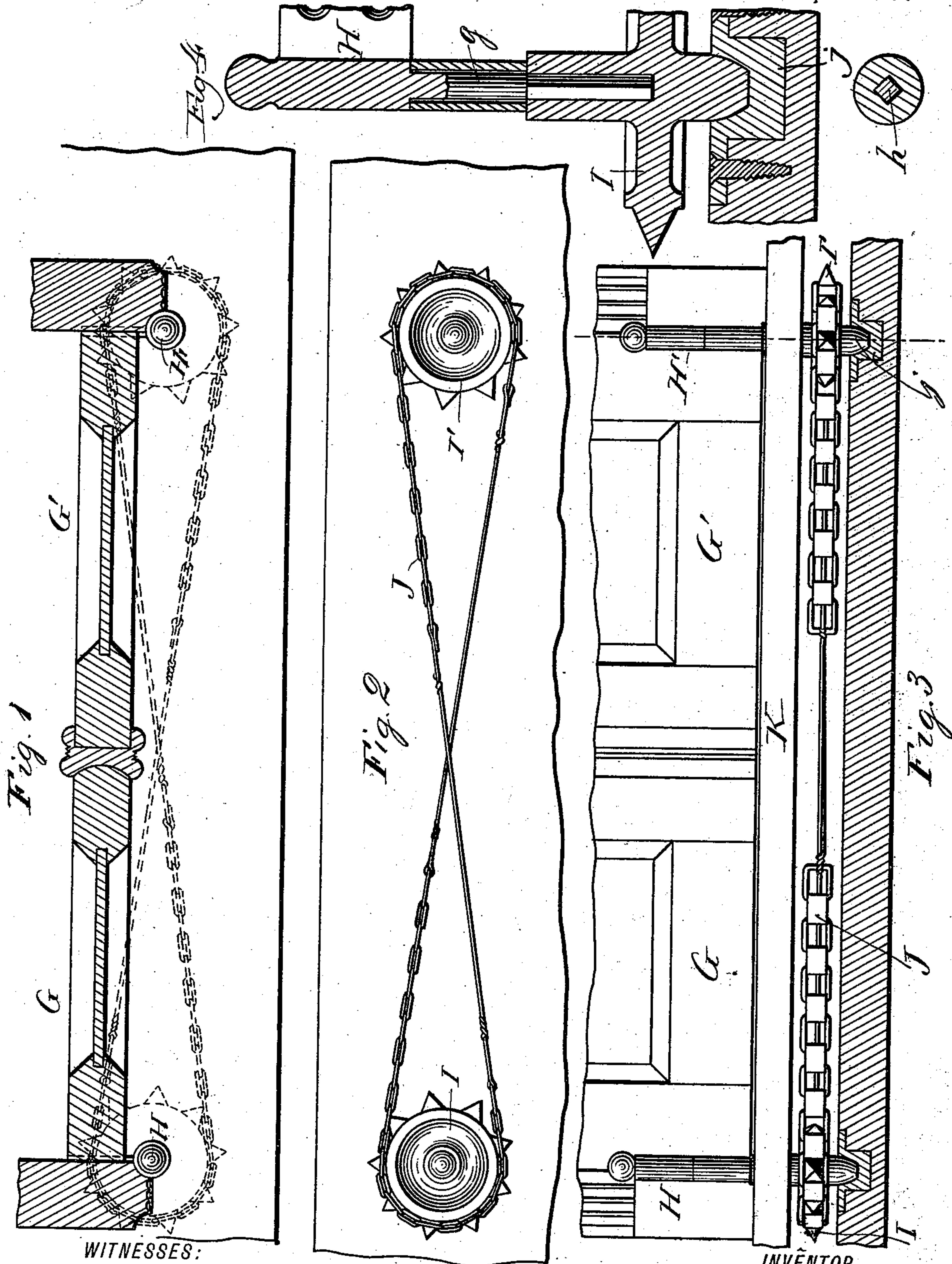


(No Model.)

B. I. H. DE VRY & J. SCHREIBER.
DEVICE FOR SIMULTANEOUS MOVEMENT OF DOUBLE DOORS.

No. 376,947.

Patented Jan. 24, 1888.



WITNESSES:

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UNITED STATES PATENT OFFICE.

BERNHARD I. H. DE VRY AND JOHN SCHREIBER, OF CHICAGO, ILLINOIS.

DEVICE FOR SIMULTANEOUS MOVEMENT OF DOUBLE DOORS.

SPECIFICATION forming part of Letters Patent No. 376,947, dated January 24, 1888.

Application filed March 28, 1887. Serial No. 232,743. (No model.)

To all whom it may concern:

Be it known that we, BERNHARD I. H. DE VRY and JOHN SCHREIBER, subjects of the Emperor of Germany, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Devices for Simultaneous Movement of Double Doors, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention has for its object to provide a device for double or two-wing swinging doors by which the movement imparted to one door will be transmitted to the other door, to move simultaneously therewith either for closing or opening; and it principally consists in connecting with the hinges of the two doors sprocket-wheels—one for each door-wing—and in a cross link-belt stretched over the two wheels for transmitting the movement from one to the other; also, in the peculiar device of coupling the sprocket-wheels with the hinges of the door-wings, and in the novel combinations of parts for obtaining the desired result, all as will be more fully hereinafter described and specifically claimed.

In the accompanying drawings, Figure 1 represents a sectional plan of swinging doors with our device attached; Fig. 2, a plan of the sprocket-wheels and chain as placed below the threshold; Fig. 3, an elevation of the lower portions of the swinging doors and sprocket-wheel attachments, and Fig. 4 a section showing the connection of one of the hinges with one of the sprocket-wheels.

Corresponding letters in the several figures of the drawings designate like parts.

G and G' denote two swinging door-wings pivotally hung on hinges H and H' in the usual

manner, only that for our purpose we provide the pivot-pins *g* of the lower hinges with squared downward extensions *h*, fitting into square sockets of sprocket-wheels I I'. Each such sprocket-wheel I I' has a long hub, one pointed end of which rests in a step-bearing, *j*, secured in a sill below the flooring, while the other end forms a journal projected through the threshold and pivotally sustained therein. In this manner both wheels I I' are placed in an open space provided below the threshold K, and are connected by a cross-belt, J, stretched over the sprocket-wheels, transmitting a reversed movement from one to the other in a manner that the swinging of one door in one direction will impart to the other door a simultaneous movement in the reverse direction.

It will be noticed that as arranged the doors can be lifted and disconnected from the hinges of the door-frame the same as with any door and without interfering with the sprocket-wheels.

What we claim is—

Two swinging door-wings having squared extensions to their hinge-pivot pins, in combination with sprocket-wheels pivotally secured under the threshold, having long hubs with squared sockets for receiving the hinge-pivot-pin extensions, and being connected by a cross-belt, substantially as set forth, for the purpose specified.

In testimony whereof we affix our signatures in presence of two witnesses.

BERNHARD I. H. DE VRY.
JOHN SCHREIBER.

Witnesses:

WILLIAM H. LOTZ,
OTTO LUBKERT.