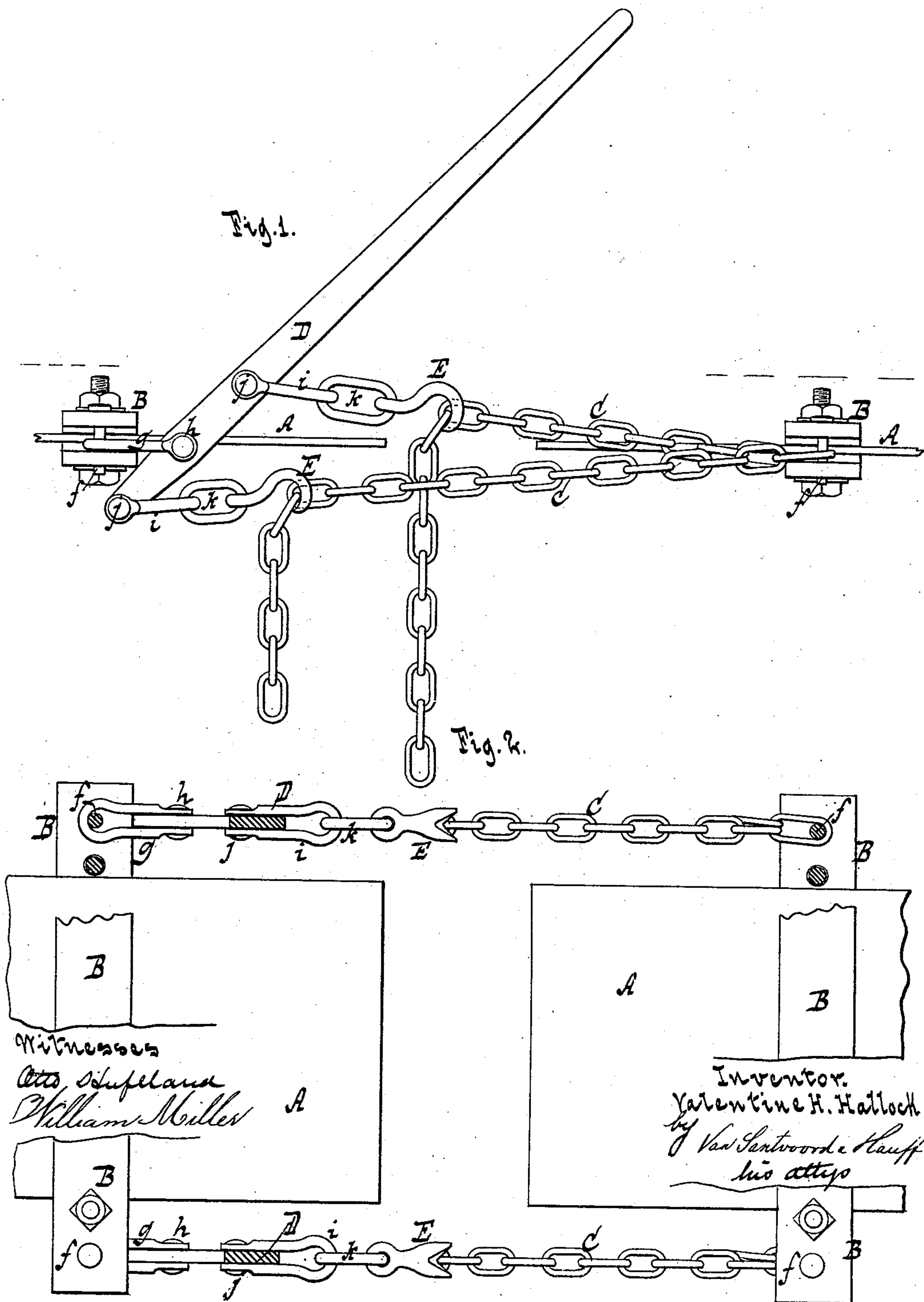


V. H. HALLOCK.
Belt-Tightener.

No. 226,311.

Patented April 6, 1880.



UNITED STATES PATENT OFFICE.

VALENTINE H. HALLOCK, OF QUEENS, ASSIGNOR OF ONE-THIRD OF HIS
RIGHT TO JAMES CONKLIN, OF BROOKLYN, NEW YORK.

BELT-TIGHTENER.

SPECIFICATION forming part of Letters Patent No. 226,311, dated April 6, 1880.

Application filed February 4, 1880.

To all whom it may concern:

Be it known that I, VALENTINE H. HALLOCK, of Queens, in the county of Queens and State of New York, have invented a new and useful Improvement in Belt-Tighteners, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings, in which—

Figure 1 shows my tightener, in side view, applied to a belt. Fig. 2 is a plan or top view thereof, partly in section.

Similar letters indicate corresponding parts.

My invention relates to devices for tightening belts of machinery; and it consists in the combination, with two belt-clamps, of one or two chains connected to one of the clamps, a hand-lever connected to the other clamp, and two hooks, or the like, connected to the lever on opposite sides of its fulcrum, so that if the clamps are applied to a belt the latter can be readily tightened by connecting the hooks to the chains and giving the lever an oscillating motion, at the same time advancing the hooks alternately upon the chains.

In the drawings, the letter A designates the two adjoining ends of a belt to be tightened, and B two belt-clamps applied to the belt in the usual manner. C designates two chains connected to one of the clamps B; D, a hand-lever connected to the other clamp, and E two hooks connected to the lever D on opposite sides of its fulcrum.

The connection of both the chains C and the lever D with the clamps B is effected by means of detachable coupling-pins *f*, one engaging the end link of the chains and the other engaging a clevis, *g*, which is attached to the lever D by means of a pivot, *h*, constituting the fulcrum of the lever. The hooks E are respectively connected to the lever D by means of a clevis, *i*, pivoted to the lever, as at *j*, and of a link, *k*.

In applying my invention to use I arrange a tightener at each end of the clamps B—or, in other words, on opposite sides of the belt—and in order to tighten the latter I connect one of the hooks—say the upper one—to a suitable part of either of the chains C. I then give the lever D an oscillating motion, thereby causing the hooks E E alternately to advance and recede, and as each hook advances I connect the same to a corresponding part of the chain, so that in the next or retrograde motion thereof the clamps B are drawn toward each other. In this manner the belt may be tightened to the desired extent, while it is at the same time held tight, so as to allow it to be laced or riveted.

I usually employ the two chains C C, in order to obtain a separate connection for each of the hooks E E; but it is obvious that a single chain will answer the purpose; and I prefer to bifurcate the hooks, so as to adapt the same to catch over the end of a chain-link, as indicated, instead of catching into the link. Other devices, however—as, for instance, clamping-jaws—may be substituted for the hooks.

What I claim as new, and desire to secure by Letters Patent, is—

The combination, with two belt-clamps, of a chain connected to one of the clamps, a hand-lever connected to the other clamp, and two hooks adjustably connected to the lever on opposite sides of its fulcrum, the whole constructed and adapted to operate substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 26th day of January, 1880.

VALENTINE H. HALLOCK. [L. S.]

Witnesses:

CHAS. WAHLERS,
J. VAN SANTVOORD.