(No Model.)

E. WOOLSON.

BELT GEARING.

No. 267,391. Patented Nov. 14, 1882.

Fig. 1.

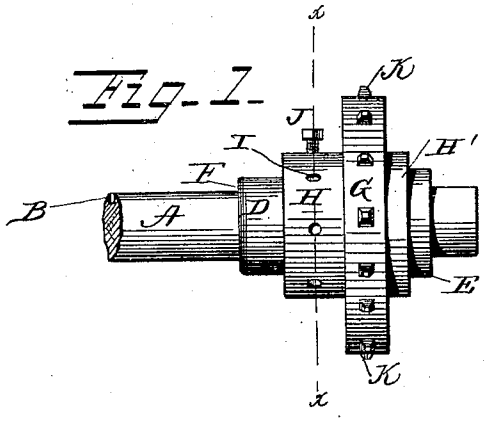


Fig. 2.

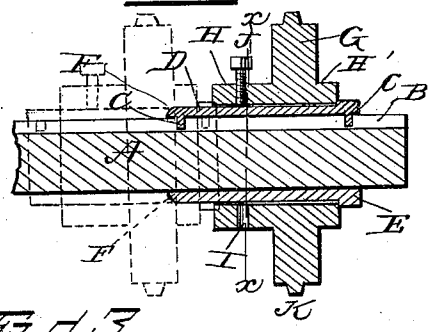


Fig. 3.

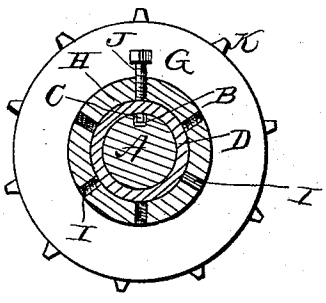
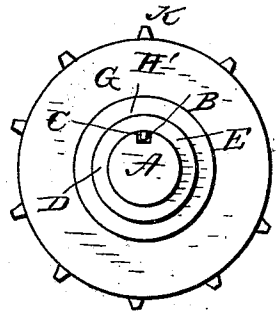


Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

EGBERT WOOLSON, OF BROOKLYN, NEW YORK.

BELT-GEARING.

SPECIFICATION forming part of Letters Patent No. 267,391, dated November 14, 1882.

Application filed August 12, 1882. (No model.)

To all whom it may concern:

Be it known that I, EGBERT WOOLSON, of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Belt-Gearing; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to drive-belt fasteners, and pertains more especially to band-wheels or pulleys for taking up the slack of drive-chains, and has for its object to provide a ready and effective adjustment of the chain-wheel.

In the drawings, Figure 1 is a side view of a portion of a shaft having my improved wheel; Fig. 2, a longitudinal sectional view; Fig. 3, a transverse sectional view on the line *x x*, Figs. 1 and 2, and Fig. 4 an end view.

Referring by letter to the drawings, A designates the rotary shaft, having a longitudinal groove, B, in which are accommodated the studs C C on the inside of the cylindrical sleeve or collar, D, having an annular circumferential raised flange, E, forming a shoulder at its end, and adapted to slide longitudinally on shaft A. The opposite end of the sleeve is beveled or curved at its edge F, over which end is slipped the chain-wheel G, having a circumferential projecting flange, H H′, on each side around its central opening. One of the latter flanges, H′, is adapted to abut against the shoulder E, and the other is provided with one or more screw-threaded openings, I, through which passes an adjusting-screw, J, which binds against the sleeve D.

The periphery of the wheel G is provided with pins or cogs K, for engaging the links of the chain.

The operation and advantages of my invention will be readily understood. The wheel, of course, turns with the shaft; but by simply operating the screw J it may be adjusted forward on the collar or sleeve or laterally on the same. It may also be easily slid on and off the sleeve.

I claim and desire to secure by Letters Patent—

The combination, with a cylindrical sleeve or collar shouldered at one end and beveled at the other, and adapted to move with or slide longitudinally on the rotary shaft, of a drive-wheel or pulley having annular projecting flanges on each side around its central opening, in one of which is provided one or more screw-threaded openings for a set-screw adapted to bind against the sleeve, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature, in presence of two witnesses.

EGBERT WOOLSON.

Witnesses:

ROBERT LUNNY, 2d,

JOHN A. WELLES.