

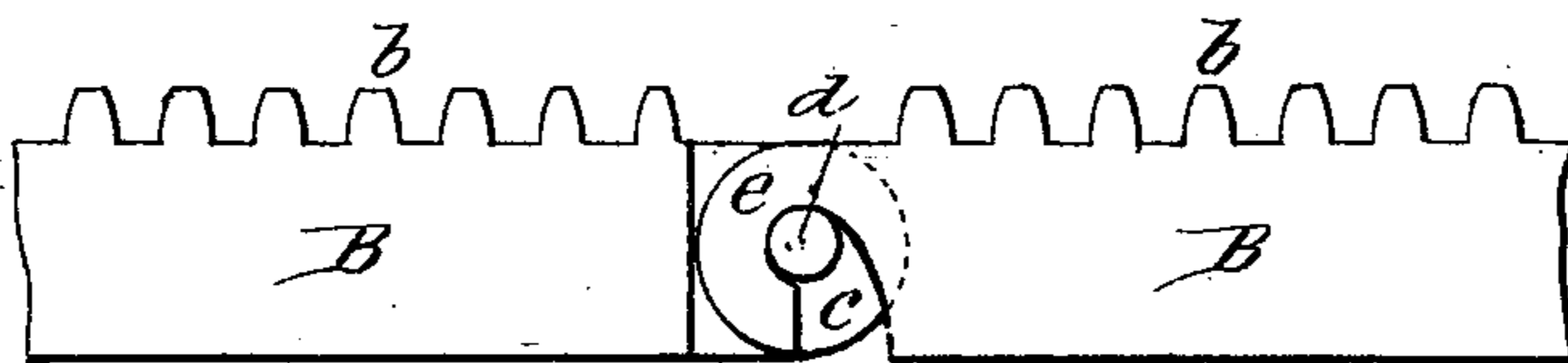
(No Model.)

J. S. AYDELOTT.  
COG LINK FOR CHAINS.

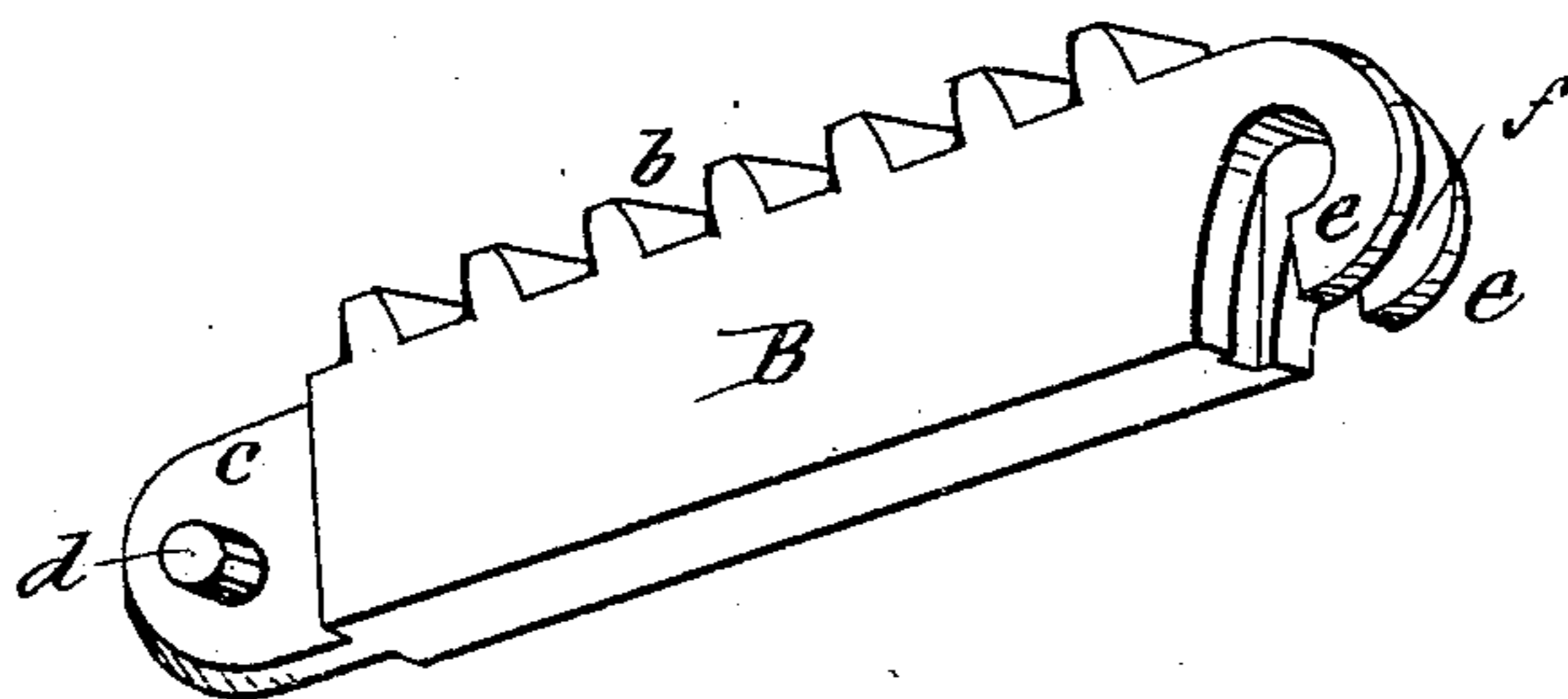
No. 270,723.

Patented Jan. 16, 1883.

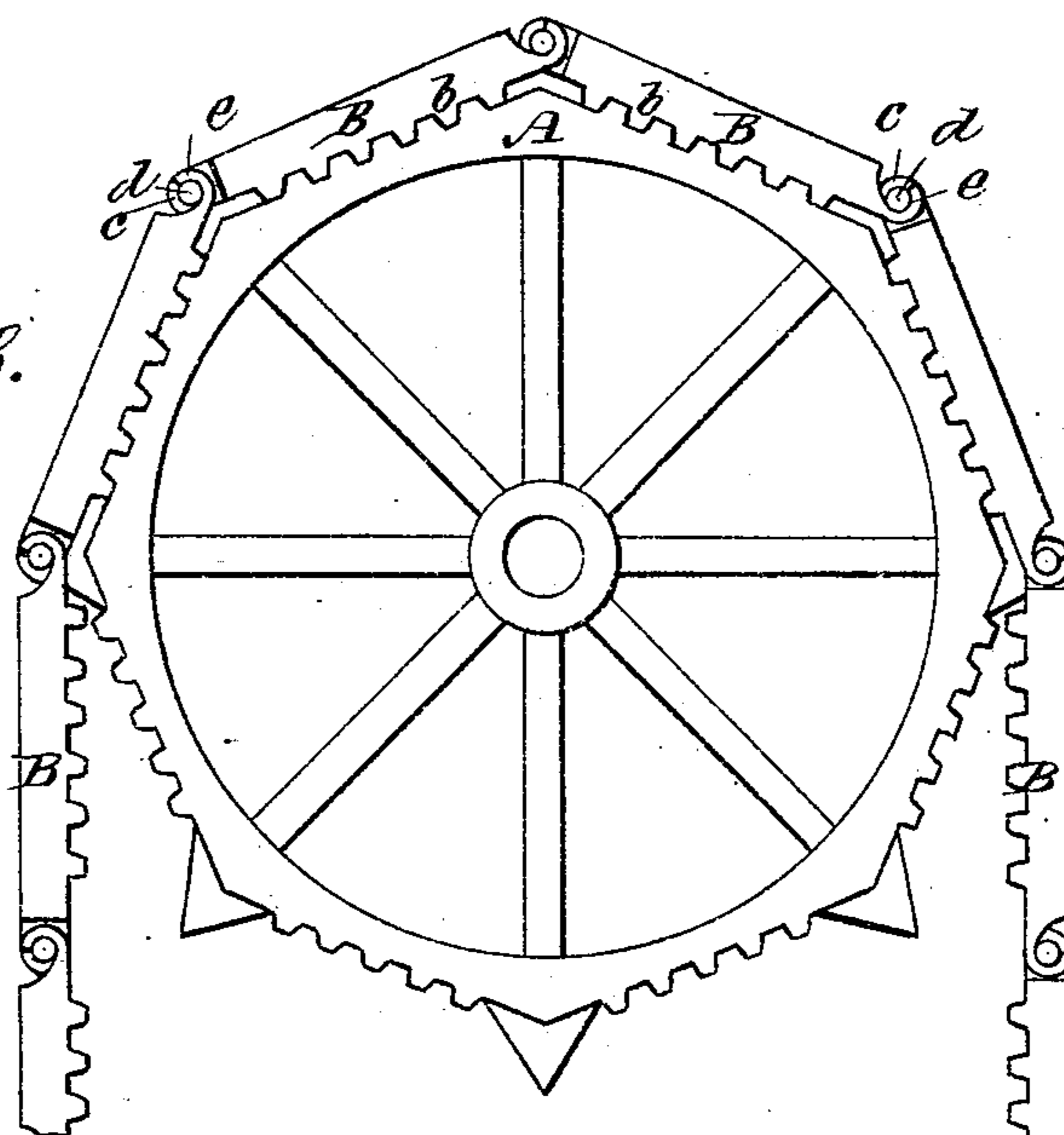
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

JACOB S. AYDELOTT, OF XENIA, INDIANA.

## COG-LINK FOR CHAINS.

SPECIFICATION forming part of Letters Patent No. 270,723, dated January 16, 1883.

Application filed October 24, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, JACOB S. AYDELOTT, of Xenia, in the county of Miami and State of Indiana, have invented new and useful Improvements in Cog-Links for Endless Chains, of which the following is a full, clear, and exact description.

This invention relates to endless chains for transmitting power in machinery of different kinds and for various purposes, including traction engines, in which a spur-wheel on the engine-shaft is connected by a cogged chain with a spur-wheel on the shaft of the driving-wheel of the engine; also including reapers, self-binders, and various agricultural and other machines.

The invention consists in a cog-link for such chains made with a slotted hook-shaped jaw at one of its ends, and a tenon at its opposite end, provided with or which is designed to have combined with it a transverse joint-pin or pin-like projections for engagement with the slotted hook-shaped jaw of a similar adjacent link, whereby a stout and durable chain having the necessary flexibility at its joints, and which, while admitting of being readily put together or taken apart, will be free from disengagement of its links when in use or working, is or may be produced.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 represents a side view of two of my improved links, in part showing their engagement one with the other. Fig. 2 is a view in perspective of one of said links; and Fig. 3, a side view, upon a smaller scale, of an endless chain in part embodying my improved link, and as applied to or engaged with a spur-wheel.

Although the cog-links in the chain might be constructed of curvilinear form in direction of their length, to accord in a measure, at least,

with the curved toothed peripheral portion of the wheel or wheels with which they engage, it is preferred to construct them straight, as represented, and the toothed peripheral portions of the wheels of polygonal form, and presenting a series of straight toothed surfaces to correspond with the links, as such construction admits of a fuller or better engagement, especially when the wheels connected by the chain are of different diameters. Fig. 3 represents a spur-wheel, A, of such polygonal shape, and as having a chain made up of straight links applied to it. Each of these links B has cogs *b* on its inner face, pitched to engage with the cogs of the wheel A, and is constructed at one of its ends with a tenon or laterally-reduced joint-piece, *c*, provided with a transverse joint-pin or pin-like projections, *d*, from opposite sides of it. The opposite end of each link is made with a hook-shaped jaw, *e e*, divided by a slot, *f*, to form a double-cheeked jaw for reception of the tenon *c* of an adjacent link within it, while the joint-pin-like projections *d* of said tenon are entered up within the hook-shaped jaw of the engaging-link, thereby making a free or working joint for the engaged links, not liable to become accidentally separated, yet affording every facility for rapidly putting the links together, and for taking them apart when required.

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

A cog-link, B, constructed with a slotted hook-shaped jaw, *e e*, at one of its ends, and with a tenon, *c*, at its opposite end, provided with a transverse joint-pin or pin-like projections, *d*, from its opposite sides, essentially as shown and described.

JACOB S. AYDELOTT.

Witnesses:

HENRY J. RAUSMAN,  
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