(Model.)

# C. H. LABELLE

## DRIVE CHAIN.

No. 260,400. Patented July 4, 1882.

Fig. 1.

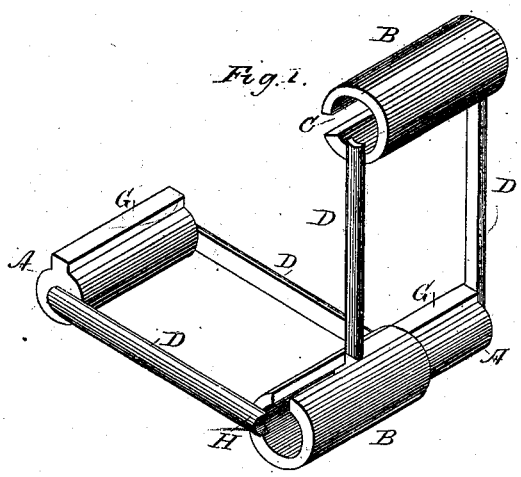



Fig. 2.

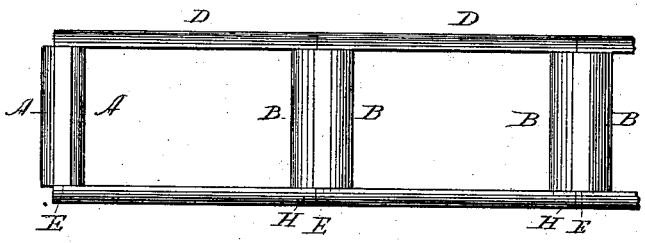



Fig. 3.

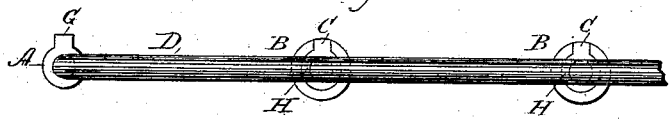
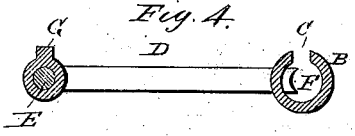



Fig. 4.

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# UNITED STATES PATENT OFFICE.

CHARLES H. LABELLE, OF HOOSICK FALLS, ASSIGNOR OF ONE-HALF TO CHARLES E. STROUD AND DARWIN E. WHITCOMB, OF HOOSICK, N. Y.

## DRIVE-CHAIN.

SPECIFICATION forming part of Letters Patent No. 260,400, dated July 4, 1882.

Application filed February 8, 1882. (Model.)

*To all whom it may concern:*

Be it known that I, CHARLES HENRY LABELLE, a citizen of the United States, residing at Hoosick Falls, in the county of Rensselaer and State of New York, have invented a new and useful Improvement in Detachable Drive-Chains, of which the following is a specification.

My invention relates to improvements in drive-chains in which the links are detachable to admit of lengthening or shortening the same; and it consists in making the links of the same with one end bar of a peculiar shape, which I term a "shell," and the other end bar is furnished with a tongue-cylinder made or cast loose around the same, so that the last-named bar may be inserted in the corresponding opposite bar of the next link, and when so inserted forms a closed smooth surface on either side and is reversible in its use. When so constructed the chain will not become detached by use and wear or by accident, as in other detachable drive-chains; but when in a certain unusual relative position any two of the links can be easily disengaged and one or more links removed or inserted at pleasure.

The nature and object of my invention are to produce a drive-chain that can be used on harvesters and other machinery with the greatest facility, simple and cheap in its construction and manufacture, superior in its strength and durability, and most convenient and desirable to the user. The reason of the superior durability of my chain is that the rear end bar of the links is inclosed in a tongue-cylinder made or cast loose around said bar, thereby preventing dirt, gravel, sand, and straw from getting into the joint or coupler, and causing unnecessary wear to the said rear bar and great inconvenience to the user of the chain. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 represents a perspective view of two links of my chain partly detached. Fig. 2 is a face view of my chain. Fig. 3 is an edge view of the same. Fig. 4 is a horizontal or edge view of one link.

Similar letters refer to similar parts throughout the several views.

It will be seen by reference to Figs. 1 to 4, inclusive, that D D represent the side arms of the links.

E represents rear end arm or bar.

A represents cylinder, made or cast loose around rear end arm, E.

G is the tongue of cylinder A, made or cast thereon.

B is the shell which forms one of the end arms of the link, provided with a chamber, F, and a slot, C.

H shows that one of the arms D is made longer than the opposite arm of the same link, so that it projects over lower end of chamber F, forming a stop for tongue-cylinder A G.

By sliding tongue-cylinder A G into chamber F and slot C of shell B down to and against the projection H of lower side arm, D, the links become locked, so as to keep them rigidly fastened when put together and in a working position, forming by this combination a tight and perfect cylinder, making a chain of equal smoothness on either side, which can be reversed and used with equal facility.

The links peculiar to my invention can be attached to or detached from each other only when they are in the angular position represented by Fig. 1, then with perfect ease.

It matters not how tight the tongue-cylinder A G may be forced or driven into chamber F and slot C of shell B, the end arm, E, of said link moves and turns with the same ease, giving to the chain the requisite flexibility for all the necessary purposes of drive-chains or chain-belts.

Having explained the nature of my invention and the structure and operation of my improved chain, so as to enable those skilled in the art to fully comprehend the former and make and use the latter, what I claim as new, and desire to secure by Letters Patent, is—

1. A link for drive-chains, having at one end an open hook and at the other a cylinder or bushing, A, provided with the tongue G, said cylinder being pivoted on the end bar

and adapted, when coupled to the hook of an adjacent link, as described, to form a closed and perfect cylindrical joint or coupling, as set forth.

2. A link for drive-chains, having at one end an open hook, and with one of its side bars projecting into the socket of the hook, and provided at the other end with a cylinder or bushing, A, having a tongue, G, said cylinder being pivoted on the end bar and adapted to be coupled from one side only of an adjacent link, and to form, when coupled, a tight and perfect cylinder or joint, as set forth.

CHAS. HENRY LABELLE.

Witnesses:
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