No. 775,355.

PATENTED NOV. 22, 1904

C. E. SMITH. CHAIN CONNECTING DEVICE. APPLICATION FILED JULY 7, 1904.

NO MODEL.

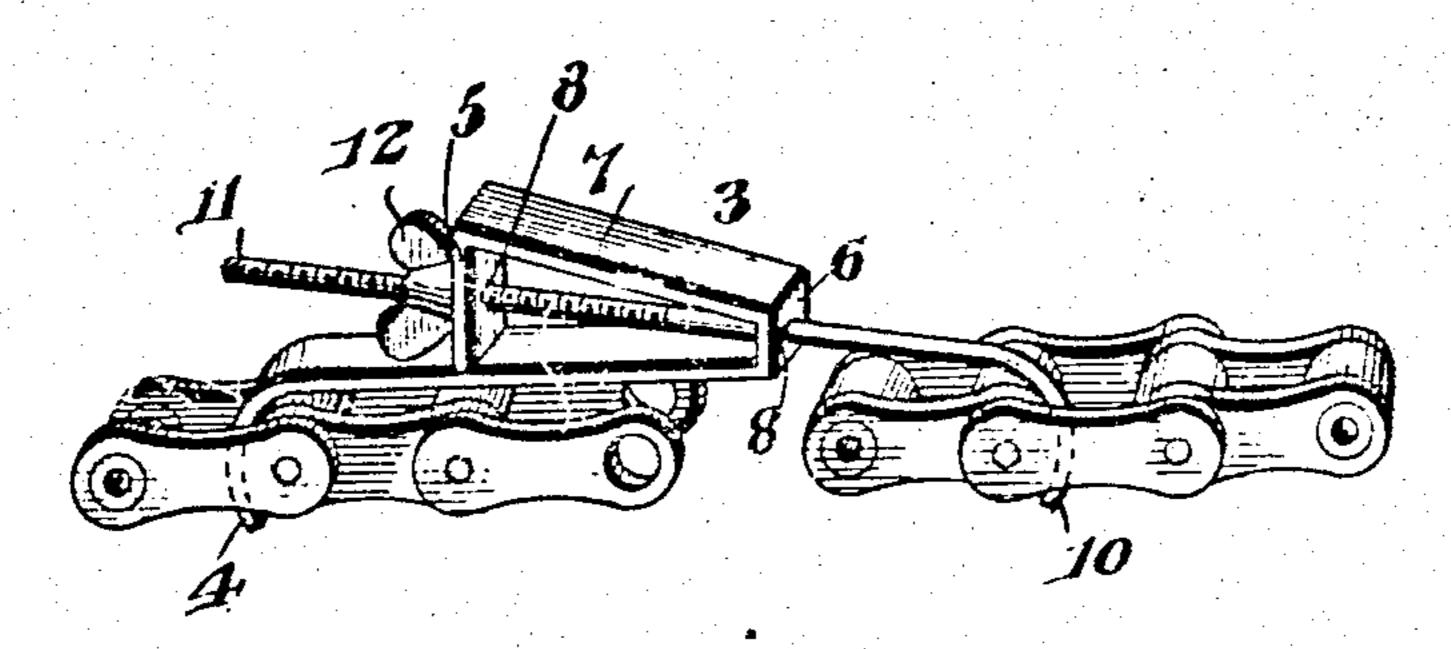
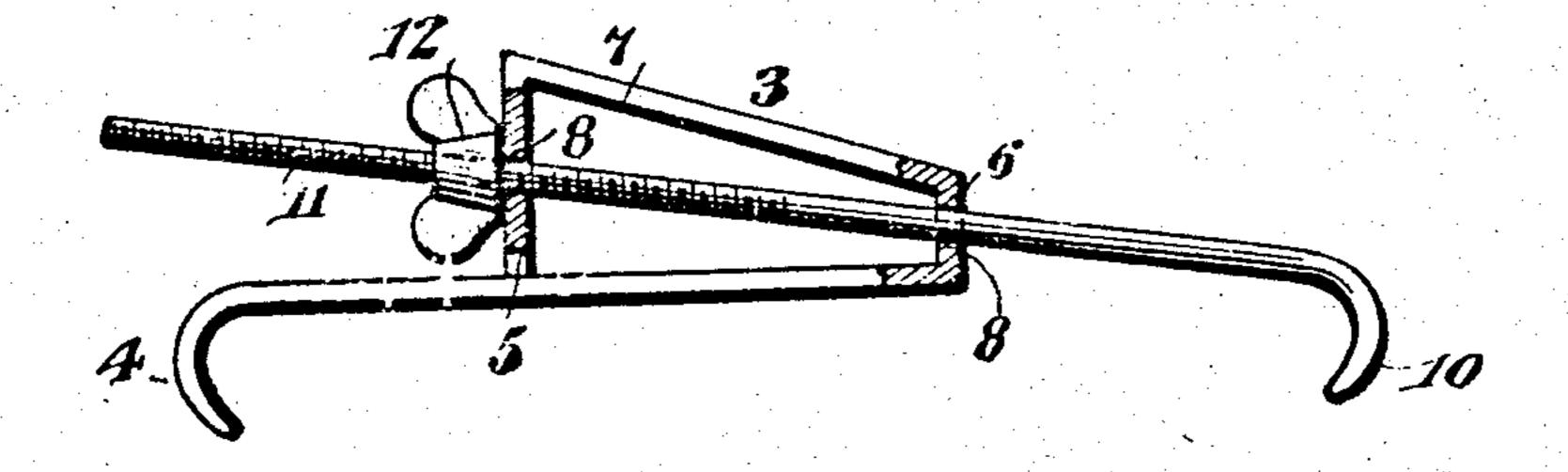


Fig.Z.



Jas Sv. MoCathran
By: Letur

Cyrus E. Smith, Inventor

Siy & Figgest

Altorney

United States Patent Office.

CYRUS EDWARD SMITH, OF FALL RIVER, MASSACHUSETTS.

CHAIN-CONNECTING DEVICE.

SPECIFICATION forming part of Letters Patent No. 775,355, dated November 22, 1904. Application filed July 7, 1904. Serial No. 215,859. (No model.)

To all whom it may concern:

Be it known that I, CYRUS EDWARD SMITH, a citizen of the United States, residing at Fall River, in the county of Bristol and State of 5 Massachusetts, have invented a new and useful Chain-Connecting Device, of which the follow-

ing is a specification.

The present invention relates to means for drawing the terminals of sprocket and similar 10 chains together for the purpose of fastening the same. In many structures employing endless sprocket-chains- as, for instance, automobiles -- certain of the sprecket-wheels are ineased, and therefore it is difficult to remove 15 or apply the chains, as it ordinarily requires the sprocket-wheels to be incred toward each other and afterward reset.

avoid these objections by providing a simple ! 20 device of a novel nature, whereby the terminal chain-sprockets may be drawn together and consequently conveniently connected.

The preferred embodiment of the invention is illustrated in the accompanying drawings,

25 wherein

Figure 1 is a view showing portions of a chain with the improved device connecting the same. Fig. 2 is a longitudinal sectional view through the device.

Similar reference-numerals indicate cerresponding parts in both figures of the draw-

ings.

In the embodiment illustrated a frame 3 is employed, preferably formed of a single strip 35 of sheet metal having a rearwardly-extending offset terminal hook 4 and spaced bearinglugs 5 and 6, these bearing-lugs being connected by a brace portion 7 and the hig 6 being preferably smaller than the lug 5. The for-40 mation of the frame will be clearly apparent, particularly by reference to Fig. 2. The hook portion 4 is formed by bending one end of the strip. Said strip is then bent substantially. midway and looped over, thereby forming the 45 lug 6, the opposite terminal being bent inwardly and abutted against the strip slightly in advance of the hook 4: The bearings 5 and the bearings of the former and thereby mov-6 are formed with openings 8, and through the ing said hooks toward each other. same is slidably passed a shank 9, the end | 2. In a device of the class described, the 50 thereof that projects beyond the bearing 6 | combination with a frame having a terminal 100

having a hook 10. The opposite end is threaded, as shown at 11. An adjusting thumb-nut 12, screwed upon the threaded shank 11, bears

against the lug 5.

In using the device the hook 4 is engaged in 55 one of the chain-sprockets at one terminal of the chain, while the hook 10 is engaged in a sprocket of the other terminal, as clearly illustrated in Fig. 1. The nut is then screwed upon the shank, so as to draw the hooks to- 60 ward each other, thereby moving the terminals of the chain in a similar direction, so that they may be readily connected, as will be seen.

It will be apparent that this device is very simple in its nature and can be readily con- 65 structed at small cost. The frame, being made of a single strip of metal, can be easily bent to The object of the present invention is to proper shape, and the loop portion, formed at one end, constitutes spaced bearings for the shank, so that there can be no lateral move- 70 ment between the two chain-engaging elements. Moreover, the device constitutes a handy article which can be carried with any ordinary repair kit for automobiles, so that in case of accident with the sprocket-chain 75 said chain may be repaired or tightened with facility.

From the foregoing it is thought that the construction, operation, and many advantages of the herein-described invention will be ap- 80 parent to those skilled in the art without further description, and it will be understood that various changes in the size, shape, proportion, and minor details of construction may be resorted to without departing from the spirit or 85 sacrificing any of the advantages of the invention.

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

Patent, is: 1. In a device of the class described, the combination with a frame having spaced bearings and carrying a hook, of a shank movably extending through the bearings and having a hook, and an adjusting device engaging the 95 frame and shank for moving the latter through

hook and provided with a loop portion having | mounted in the bearing and located at an inoffset spaced bearings, of a shank slidably clination to the bar, said shank carrying a passed through the bearings of the loop portion and having a hook at one end, and an ad-5 justing-nut threaded through the end of the shank and abutting against one of the bearings.

3 In a device of the class described, the exubination with a frame including a longi-10 tudinally-disposed bar terminating in an integral sprocket-chain-engaging hook, of a bearing carried by the bar, a shank slidably

sprocket-chain-engaging hook that is located 15 in opposing relation to the hook of the bar, and an adjusting device engaging the shank.

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

CYRUS EDWARD SMITH. [L. s.]

Witnesses:

HECTOR LE BOEUF, PHILIPPE A. BROSSEAU.