

(No Model.)

E. SCHMIDT.
STRETCHER BAR.

No. 404,988.

Patented June 11, 1889.

Fig. 1.

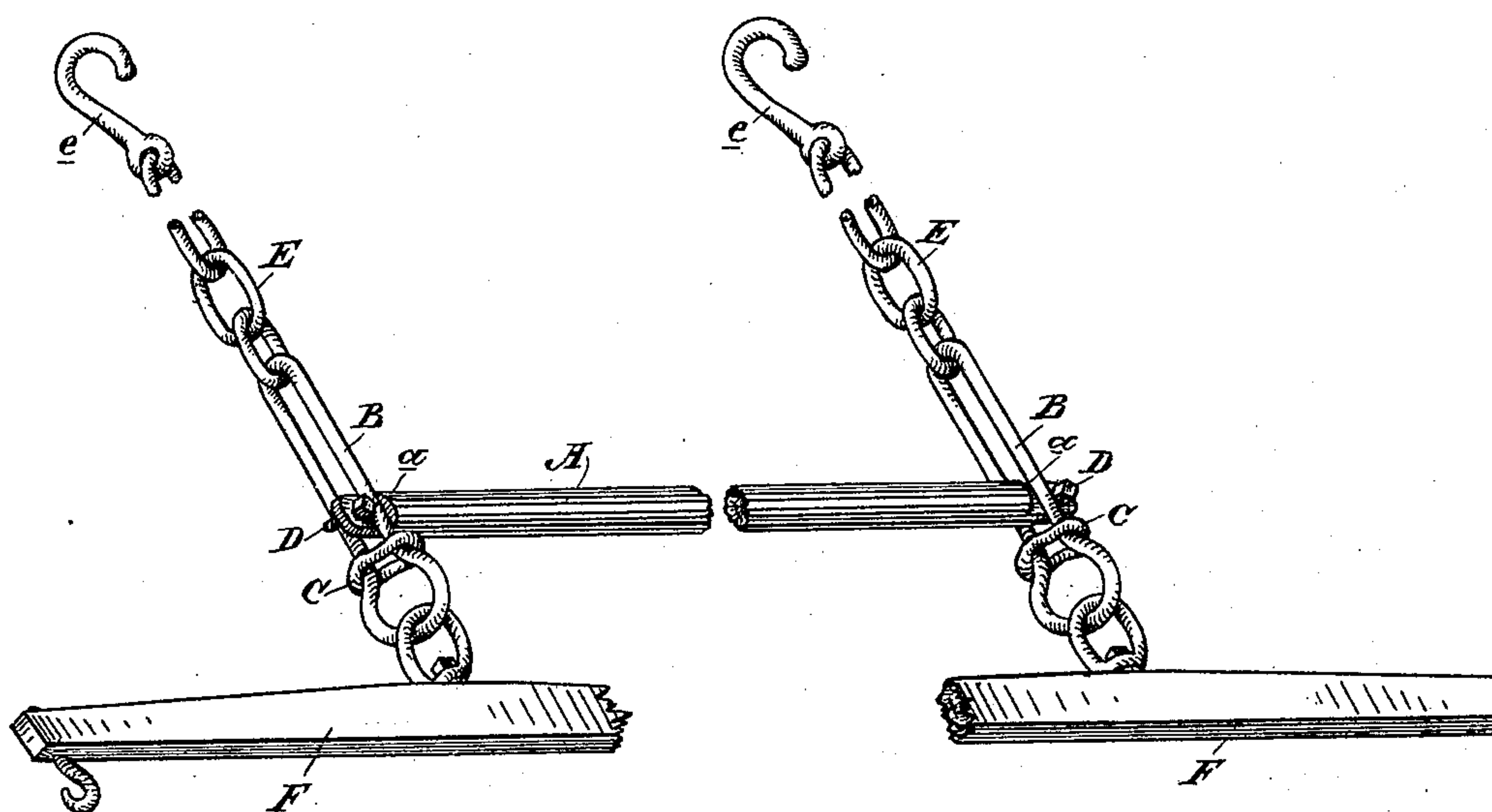
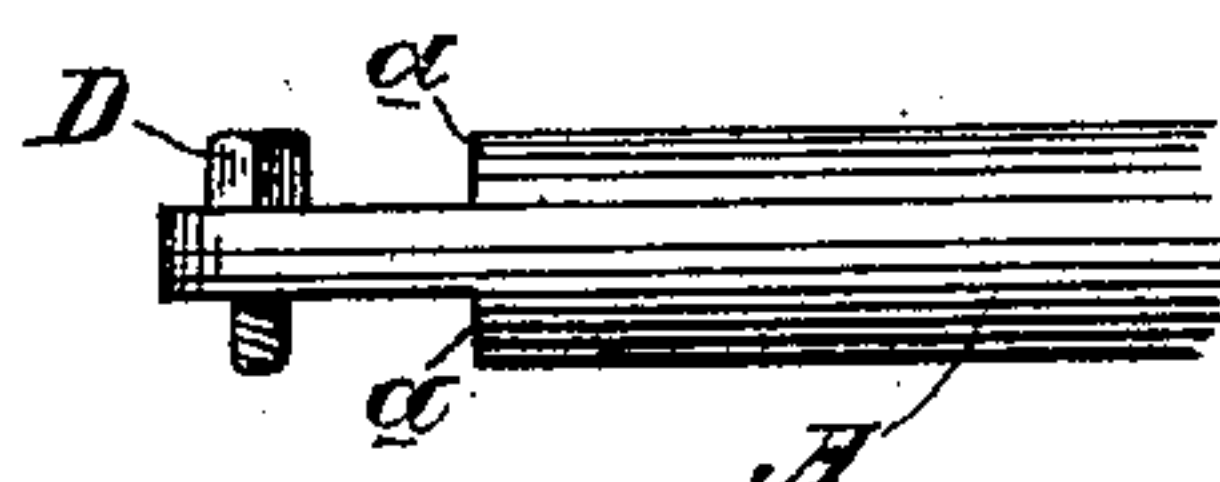


Fig. 2.



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UNITED STATES PATENT OFFICE.

ERICH SCHMIDT, OF MARYSVILLE, CALIFORNIA.

STRETCHER-BAR.

SPECIFICATION forming part of Letters Patent No. 404,988, dated June 11, 1889.

Application filed March 27, 1889. Serial No. 305,018. (No model.)

To all whom it may concern:

Be it known that I, ERICH SCHMIDT, of the city of Marysville, in the county of Yuba and State of California, have invented an
5 Improvement in Stretcher-Bars; and I hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to the class of devices used in connection with draft-harness and
10 commonly known as "stretcher-bars." The object of these bars is to spread the draft-connections to an extent sufficient to apply two singletrees to them, so that a double team may be used.

15 The object of my invention is to provide simple and effective end connections for said bar, which will hold it in place and prevent it from binding, said connections being readily removable to permit their use for other
20 purposes.

My invention consists, in combination with the stretcher-bar, of the novel main links fitted to the ends of the bar, the stop-links fitted to the forward end of the main links,
25 and the set-screws holding the main links on the bar and permitting their ready removal, all of which I shall hereinafter more fully describe.

Referring to the accompanying drawings,
30 Figure 1 is a perspective view of my stretcher-bar. Fig. 2 is a detail of one end of the bar, showing the set-screw, the links being removed.

A is the bar, made of gas-pipe or solid
35 iron.

B is the main link of the bar-connections. One of these links is fitted upon each end of the bar, which passes freely through them. The forward ends of the main links are enlarged, as shown, and about their smaller
40 portions and directly in front of the bar ends are fitted the stop-links C. Through the ends of the bar, just outside of the links B, are seated the set-screws D, which hold
45 the said links on the bar ends, their inward movement being limited by shoulders *a* on the bar.

To the rear ends of the links B are attached the chains E, having hooks *e*, by

which they may be connected with the imple- 50
ment or vehicle to be drawn. To the forward ends of the links B are connected the singletrees F.

The object of the stop-links C is to keep the ends of the bar in place and prevent 55
them from working forward and cramping or binding in the space forward where the singletree-rings engage. These links C form simple and readily-applied stops for this purpose, and the enlarged ends of the main links 60
hold them well in place.

The set-screws are used to hold the links on the bar, and have the advantage of permitting the ready removal and replacement of the links and the hooks and chains, in 65
case they should be required temporarily for any other purpose.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is— 70

1. In combination with the stretcher-bar, the main links B, fitted upon the ends of the bar, and a fixed stop traversing each link forward of the bar to prevent said bar from binding in the forward portion of the links, 75
substantially as described.

2. In combination with the stretcher-bar, the main links B, fitted upon the ends of the bar, and the stop-links C, fitted on the links forward of the bar to prevent said bar 80
from binding in the forward portion of the links, substantially as described.

3. In combination with the stretcher-bar, the main links B, fitted upon the ends of the bar and having enlarged forward ends, 85
and the stop-links C, fitted on the links B between their enlarged forward ends and the front of the bar, whereby the latter is prevented from binding in the forward portion of the main links, substantially as de- 90
scribed.

4. In combination with the stretcher-bar, the links B, fitted upon its ends and carrying the rear connections and the singletrees, and the set-screws seated on the ends of the 95
bar to hold the links in place, substantially as described.

5. In combination with the stretcher-bar,

the main links B, fitted upon its ends, the
stop-links C, secured on the main links for-
ward of the bar to prevent said bar from
binding in the forward portion of the main
5 links, and the set-screws seated in the ends
of the bar for holding the links in place, sub-
stantially as described.

In witness whereof I have hereunto set my
hand.

ERICH SCHMIDT.

Witnesses:

J. C. BRADLEY,
W. J. GRAY.