

(No Model.)

S. R. COLTEBAUGH.
BREAST CHAIN FOR HARNESS.

No. 421,817.

Patented Feb. 18, 1890.

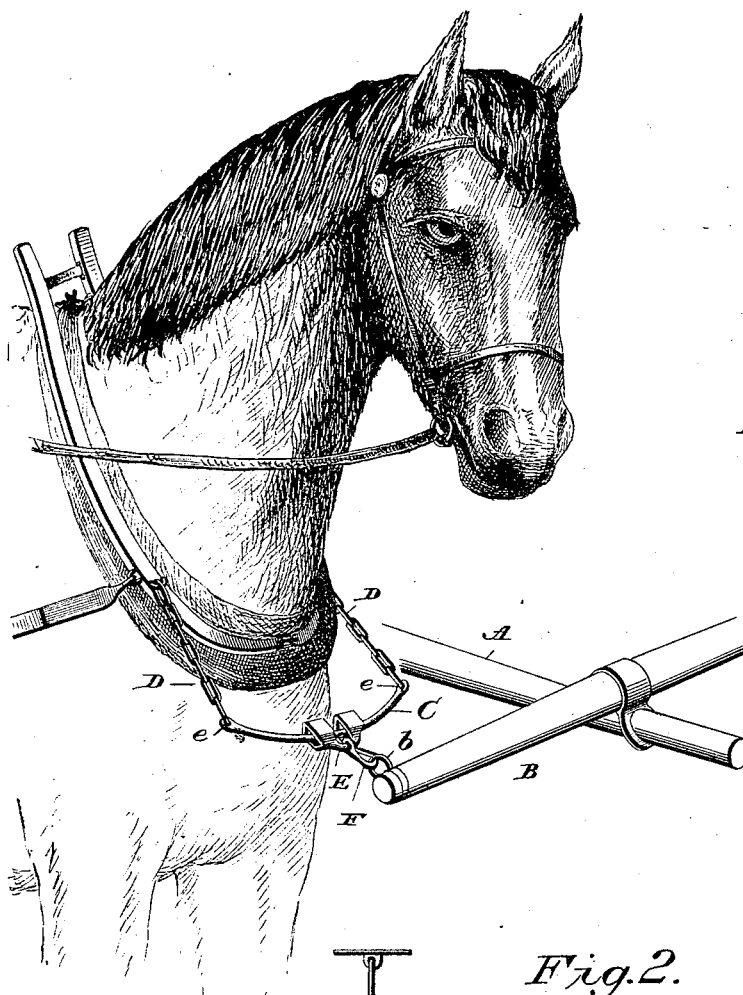


Fig. 1.

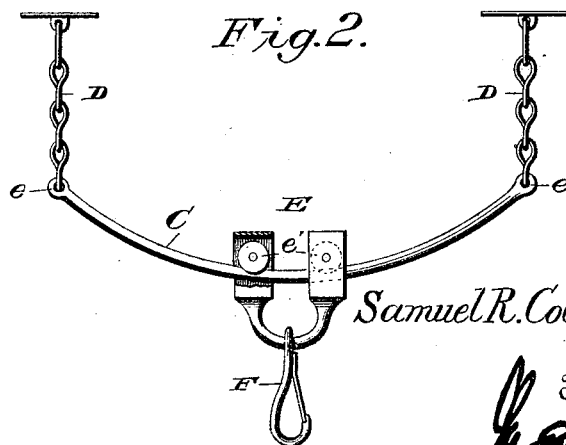


Fig. 2.

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Witnesses

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By his Attorney

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UNITED STATES PATENT OFFICE.

SAMUEL R. COLTEBAUGH, OF INDIANA, PENNSYLVANIA.

BREAST-CHAIN FOR HARNESS.

SPECIFICATION forming part of Letters Patent No. 421,817, dated February 18, 1890.

Application filed November 21, 1889. Serial No. 331,057. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL R. COLTEBAUGH, a citizen of the United States of America, residing at Indiana, in the county of Indiana and State of Pennsylvania, have invented certain new and useful Improvements in Breast-Chains for Harness; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to certain new and useful improvements in breast-chains for harness.

The object of the invention is to provide a connecting means between the neck-yoke and hame or collar rings, which will allow a free movement and take up the movement of the neck-yoke so that it will not be imparted to the horse; and it consists in providing a breast-chain with a curved or segmental bar of rigid material, upon which is mounted a yoke carrying rollers, said yoke having a snap-hook for engaging with the ring of the neck-yoke, the ends of the curved bar having flexible connections attached thereto which engage with the hame-rings, as will be hereinafter fully set forth.

In the accompanying drawings, Figure 1 is a perspective view showing the application of my invention, and Fig. 2 is a plan view.

This device is adapted to be used with double harness, and in the drawings A refers to the pole of a vehicle to which the neck-yoke B is attached in the usual manner, said neck-yoke being provided with end rings *b b*.

C refers to a curved or segmental bar of

rigid material—as iron or steel—which is provided at its ends with eyes *e*, through which pass the end links of the chains D D, the other ends of said chains having eye-bars which engage with the hame-rings, as shown.

Upon the bar C is mounted a yoke E, which carries rollers *e' e'*, and to the looped portion of this yoke is attached a snap-hook F, which is adapted to engage with the end ring or staple of the neck-yoke.

By means of the hereinbefore-described device connections are formed between the yoke-bar and the collar or hames, and as the pole and neck-yoke swing from side to side said movement is taken up as the yoke-carrying rollers move or ride upon the curved bar, and jerking or sudden jars upon the collar are avoided. There is also less wear upon the parts than with the ordinary breast-chains.

Having thus described my invention, I claim—

1. In a breast-connection for harness, the combination of a curved metal bar, a yoke adapted to move thereon, and flexible connections for attaching the bar to the hame-rings, substantially as shown.

2. In a breast-connection for harness, the combination of a curved metal bar, the yoke having rollers mounted thereon, flexible connections for attaching the ends of the bar to the hames, and a snap-hook carried by the yoke, substantially as shown, and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

SAMUEL R. COLTEBAUGH.

Witnesses:

WILLIAM SHIELDS,
JAMES ST. CLAIR.