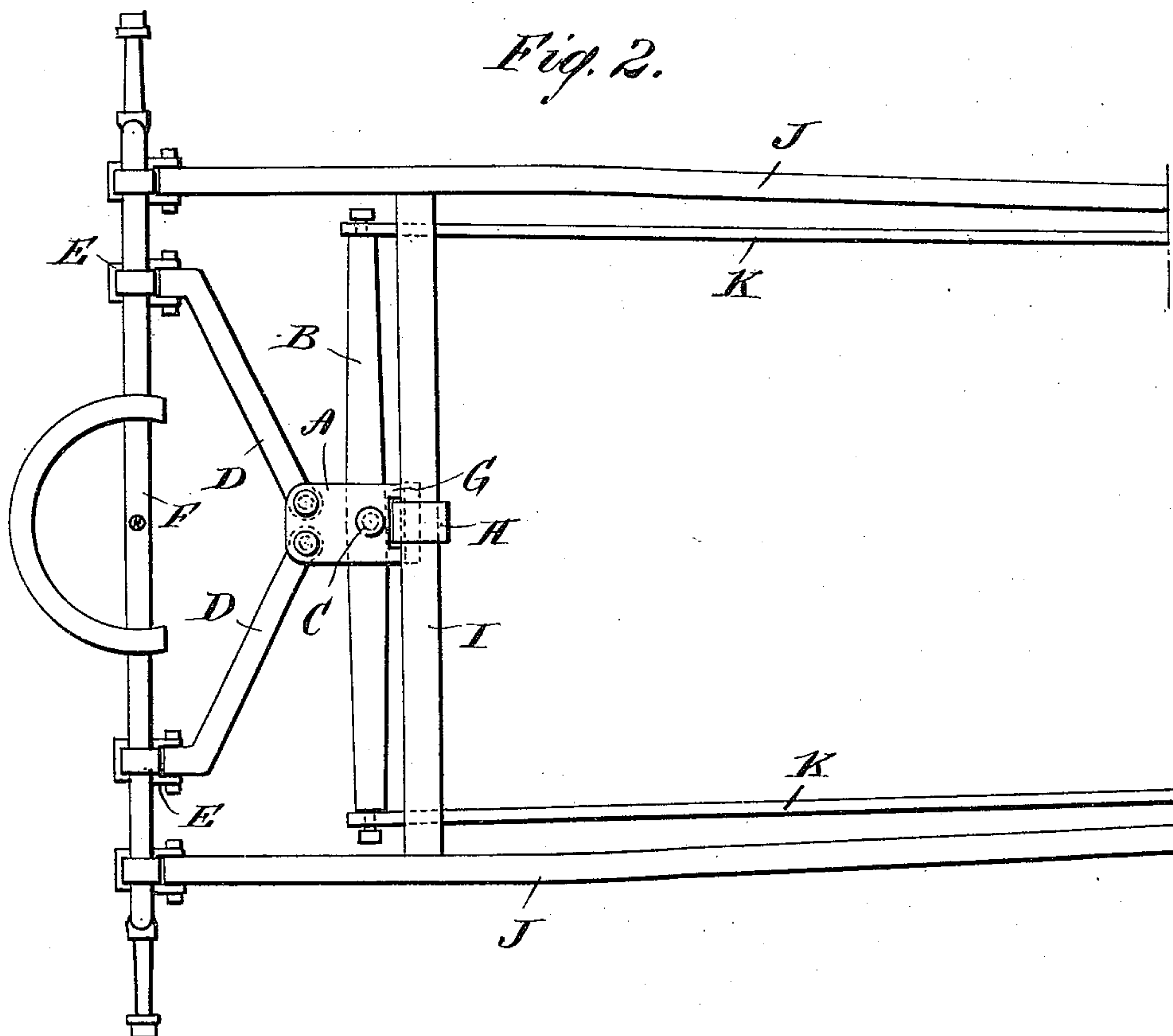
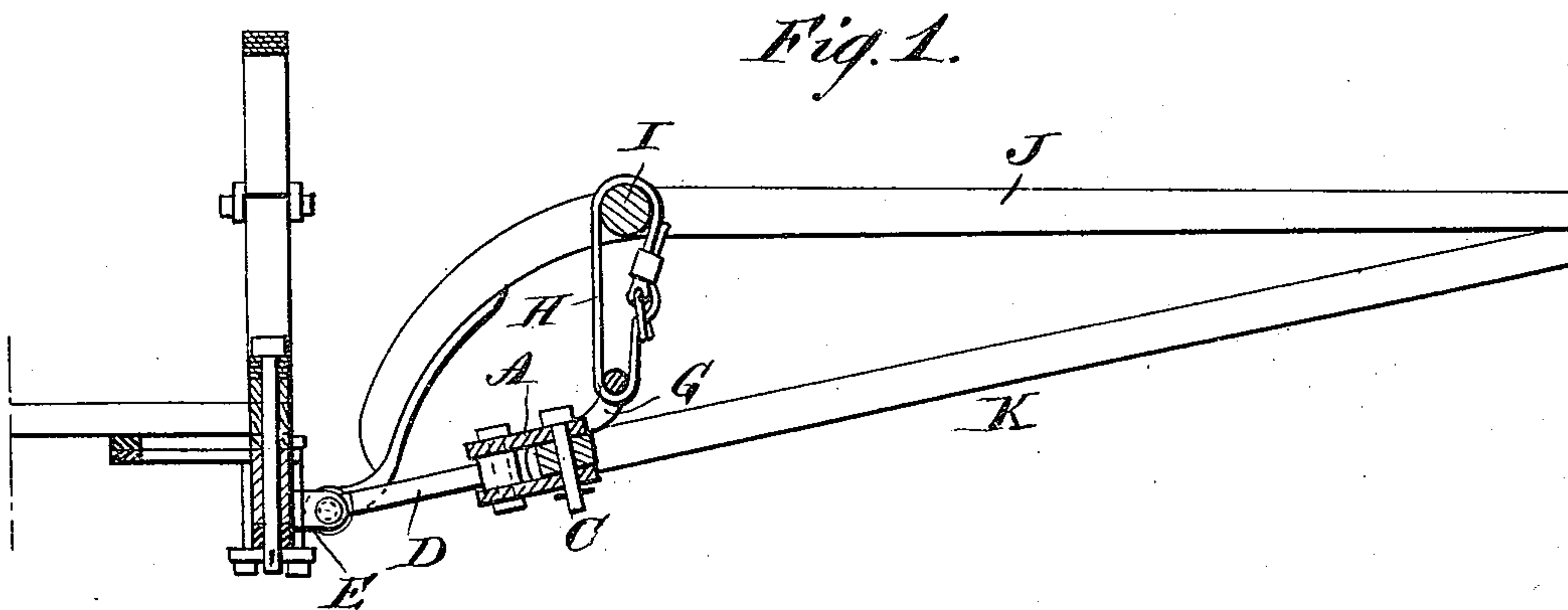


(No Model.)

R. C. ALLEN.
SINGLE TREE SUPPORT.

No. 440,987.

Patented Nov. 18, 1890.



WITNESSES:

Dean Twitchell
C. Sedgwick

INVENTOR:

R. C. Allen

BY

Munn & Co

ATTORNEYS

UNITED STATES PATENT OFFICE.

ROBERT C. ALLEN, OF GROVE CITY, PENNSYLVANIA.

SINGLETREE-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 440,987, dated November 18, 1890.

Application filed September 11, 1890. Serial No. 364,660. (No model.)

To all whom it may concern:

Be it known that I, ROBERT C. ALLEN, of Grove City, in the county of Mercer and State of Pennsylvania, have invented a new and Improved Singletree-Support, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved device for conveniently supporting singletrees on one-horse vehicles in such a manner as to relieve the animal drawing the vehicle from all strain on its back.

The invention consists of a block adapted to carry the singletree, a strap for supporting the block from the cross-bar of the shafts, and arms connected with the block and pivoted on the axle of the vehicle.

The invention also consists of certain parts and details and combinations of the same, as will be fully described hereinafter, and then pointed out in the claims.

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

Figure 1 is a sectional side elevation of the improvement, and Fig. 2 is a plan view of the same.

The improved singletree-support is provided with a block A, on which is fulcrumed the singletree B by means of a pin C. The rear of the block A is connected with two arms D, extending rearward and pivoted on suitably-constructed clips E, secured on the front axle of the vehicle.

On the top and at the front of the block A is formed an eye G, through which passes an adjustable strap H passing also over the cross-bar I or other attachment of the shafts J of the vehicle. The strap H is provided with the usual buckle for lengthening and shortening the strap, so as to suspend the block A farther up or lower down from the cross-bar I of the shafts. To the ends of the singletree B are fastened in the usual manner the traces K of the harness.

It will be seen that by this device the sin-

gletree B is suspended a suitable distance below the bent parts of the shafts J, so that the line of draft is straight from the axle to the collar of the animal, which is not the case in the singletree as supported on top of the bent parts of the shafts J, as is usually done in one-horse vehicles.

It will be understood that the device is specially designed for one-horse vehicles having bent shafts. It is also evident that by placing a doubletree in the block instead of a singletree, and by suitably extending the arms and properly adjusting the device under a bent pole, it is adapted to double-team work and will prevent strain on the horses' necks.

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

1. A singletree-support comprising a block adapted to carry the singletree, a strap for supporting the block from the shafts, and arms connected with the block and adapted to be pivoted on the axle of the vehicle, substantially as shown and described.

2. In a singletree-support, the combination, with a block provided with a pin adapted to form the fulcrum for the singletree, of an adjustable strap for supporting the said block from the shafts, and arms connected with the said block and pivoted to clips adapted to be secured to the axle of the vehicle, substantially as shown and described.

3. In a singletree-support, the combination, with a block provided with a pin adapted to form the fulcrum for the singletree, and an eye formed on the said block, of a strap passing through the said eye and adapted to be supported from the cross-bar of the shafts, arms connected with the said block, and clips pivotally connected with the said arms and adapted to be secured on the axle, substantially as shown and described.

ROBERT C. ALLEN.

Witnesses:

JOHN A. SMITH,

W. F. MACDONELL.