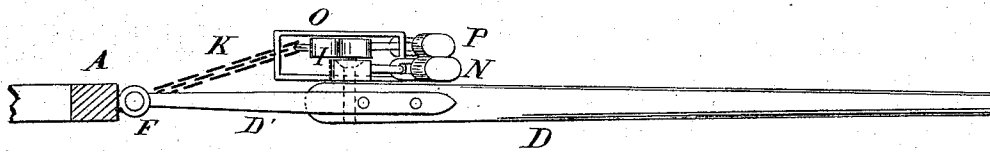
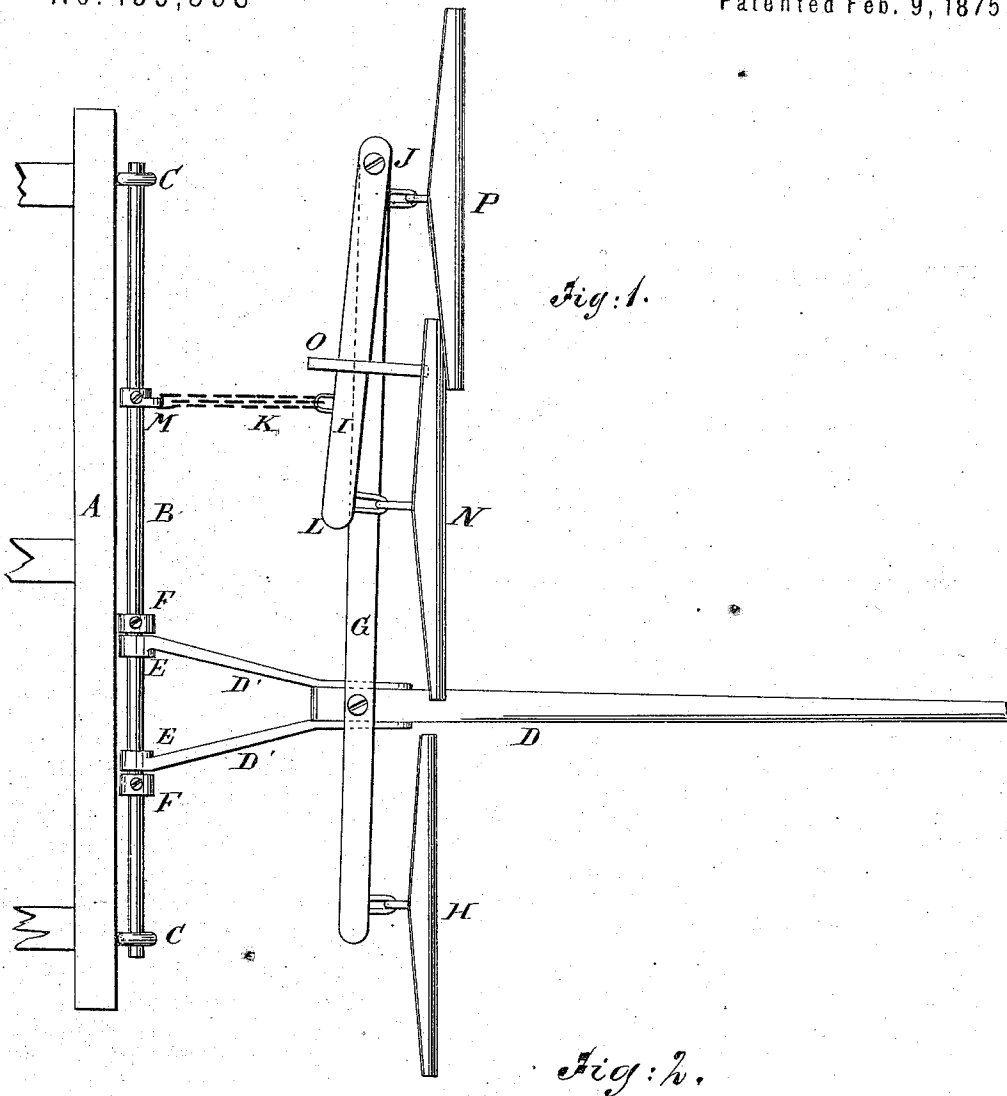


E. A. BEERS.
Draft-Equalizer.

No. 159,558

Patented Feb. 9, 1875.



WITNESSES:

Chas. Nida
A. F. Terry

INVENTOR:

E. A. Beers
BY *Wm. H.*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

EDWIN A. BEERS, OF DE KALB, ILLINOIS.

IMPROVEMENT IN DRAFT-EQUALIZERS.

Specification forming part of Letters Patent No. **159,558**, dated February 9, 1875; application filed December 28, 1874.

To all whom it may concern:

Be it known that I, EDWIN A. BEERS, of De Kalb, De Kalb county, Illinois, have invented a new and Improved Equalizer, of which the following is a specification:

This invention relates to new and useful improvements in the draft-gear of vehicles, by means of which the draft of three horses, when used abreast, is equalized; and it consists in the arrangement of the several parts, as hereinafter described.

Figure 1 is a top or plan view of the whole apparatus, and Fig. 2 is a side view of the same.

Similar letters of reference indicate corresponding parts.

A represents the front of a wagon or other vehicle. B is a rod attached rigidly thereto, as seen at C C. D is the tongue, which is attached to the rod by the braces D D'. These braces have eyes E E, which slide on the rod, and the tongue may be adjusted and fastened in any desired position by means of the collars F F, in which are set-screws, as seen in the drawing, for fastening them. G is the evener, which is attached to the tongue at a point about one-third of the length of the evener. H is a whiffletree for the right-hand

horse. I is a lever, fastened by a joint, screw, or pin through its end to the end of the evener, as seen at J. K is a chain attached to the lever at a point about one-fourth the length of the lever from the loose end L. This chain is attached to the rod B by an adjustable slide, M. N is a whiffletree attached to the loose end L of the lever for the middle horse. O is a band, which is attached to the under side of the evener, and surrounds the lever and limits its action back and forth. P is a whiffletree attached to the evener for the outside horse.

With this arrangement, the three horses which are attached to the whiffletree will draw an equal amount of the load, and without side draft.

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

The combination of the rod B, collars F F and M, tongue D, evener G, lever I, chain K, and whiffletrees H H and P, substantially as and for the purposes described.

EDWIN A. BEERS.

Witnesses:

R. K. CHANDLER,
HENRY H. WAGNER.