

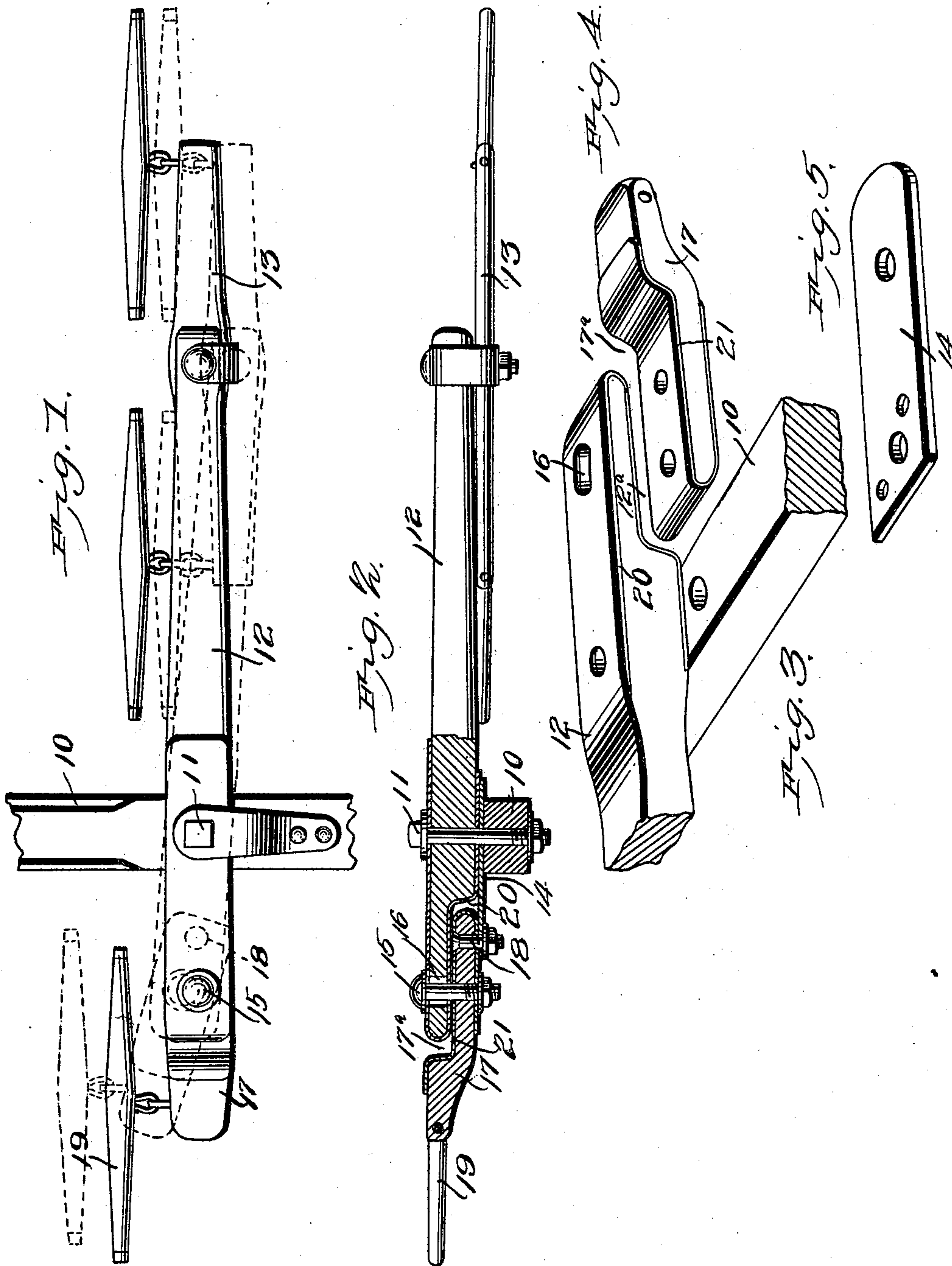
No. 704,001.

Patented July 8, 1902.

B. CREPLIN.
DRAFT EQUALIZER.

(Application filed Mar. 12, 1902.)

(No Model.)



Witnesses
E. J. Stewart
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UNITED STATES PATENT OFFICE.

BERNHARD CREPLIN, OF GOODLAND, INDIAN TERRITORY.

DRAFT-EQUALIZER.

SPECIFICATION forming part of Letters Patent No. 704,001, dated July 8, 1902.

Application filed March 12, 1902. Serial No. 97,937. (No model.)

To all whom it may concern:

Be it known that I, BERNHARD CREPLIN, a citizen of the United States, residing at Goodland, in the Choctaw Nation, Indian Territory, have invented a new and useful Draft-Equalizer, of which the following is a specification.

This invention relates to draft-equalizers for three or more horses; and it consists in certain novel features of the construction, as hereinafter shown and described, and specifically pointed out in the claims.

In the drawings illustrative of the invention, Figure 1 is a plan view. Fig. 2 is a rear elevation, partially in section. Figs. 3, 4, and 5 are perspective views of parts of the device detached.

The device will be attached to the tongues or draft-poles of harvesting machinery, gang and other plows, and any machinery or vehicle having side draft and requiring the use of three or more horses, and in the drawings the draft-pole is represented at 10 and will be of the ordinary construction. Pivotally connected to the tongue by a bolt 11 is an evener-bar or tripletree 12. The evener-bar extends farther to one side than to the other of the tongue, and the doubletree 13 is coupled to the outer end of the long arm, while the short arm of the tripletree extends beyond the tongue on the opposite side, as shown.

Attached rigidly to the tongue 10 at the point where the bolt 11 passes through it is a brace-arm 14, extending laterally from the tongue and conforming in outline substantially with the short arm of the tripletree 12, the outer end of this short arm being pivotally united to the outer end of the brace-arm by a pivot-bolt 15. The pivot-bolt 15 passes through an elongated slot 16 in the tripletree 12, (shown in Fig. 2,) so as to provide a flexible joint between the parts 14 and 12, as hereinafter shown. The under part of the outer end of the short arm of the tripletree 12 is cut away, as shown at 12^a, to provide a cavity between its outer end and the outer end of the brace-arm 14, this space designed to receive the inner end of a coupling-bar 17, which is also cut away at the upper part of its inner end, as at 17^a, so that the general surfaces of the two parts 12 and 17 will coincide, as shown. The inner extremity of the coupling-

bar 17 is pivotally united to the brace-arm 14 by a bolt 18, as shown in Fig. 2. The singletree 19 for the attachment of the single horse is coupled to the outer end of the coupling-bar 17, as shown.

Embracing both the upper and lower surfaces of the short arm of the tripletree and extending inward beyond the pivot-bolt 11 is a sheet-metal guard or wear-plate 20. Likewise embracing both the upper and lower surfaces of the inner portion of the coupling-bar 17 is a sheet-metal wear-plate 21, by which means all the wearing-surfaces between the tripletree and coupling-bar are metal-lined, so that there will be no wearing of wood upon wood upon any portion of the device. Moreover, the wear-plates by being arranged to inclose the ends of parts 12 and 17 form supports thereto, which greatly strengthens them as well as preventing splitting or abrasion.

The means whereby the two parts 12 and 17 are united is an important feature of the invention, as the coupling between them is attained without increasing the total thickness vertically over the vertical thickness of the tripletree 12. By this simple arrangement any inequality in the power or strength of the horses is corrected and compensated for by the difference in leverage between the parts and automatically adjusting itself to the changed conditions and causing an equalization of the draft and the prevention of side draft.

The parts are all very simple in construction and easily assembled and the device readily adapted to the various forms of vehicles upon which such devices are employed.

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

1. In a draft-equalizer, a draft-tongue, a tripletree pivotally united to said tongue at one side of the center with the doubletree coupled to its long end and with the under side of the short end cut away, a brace-arm rigidly connected to said tongue and extending laterally therefrom beneath the short end of said tripletree, a coupling-bar having its upper part cut away and engaging the space between said brace-bar and said cut-away portion of said tripletree and adapted to support the singletree, a pivot-bolt uniting said

tripletree and said coupling-arm, and a pivot-bolt uniting said coupling-arm and said brace-arm, whereby the parts are coupled without increasing the vertical thickness, substantially as described.

5 2. In a draft-equalizer, a draft-tongue, a tripletree pivotally united to said tongue at one side of the center with the doubletree coupled to its long end and with the under
10 side of the short end cut away, a brace-arm rigidly connected to said tongue, and extending laterally therefrom beneath the short end of said tripletree, a coupling-bar having its upper part cut away and engaging the space
15 between said brace-bar and said cut-away portion of said tripletree and adapted to support the singletree, a wear-plate embracing the upper and lower surfaces and the extrem-

ity of the short end of said tripletree and between it and said tongue and between it and 20 said brace-arm, a wear-plate upon the upper and lower surfaces and the inner extremity of said coupling-arm and between it and said brace-arm and between it and said tripletree, a pivot-bolt uniting said tripletree and said 25 coupling-arm, and a pivot-bolt uniting said coupling-arm and said brace-arm, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in 30 the presence of two witnesses.

BERNHARD CREPLIN.

Witnesses:

J. F. HUMER,
H. FUNKE.