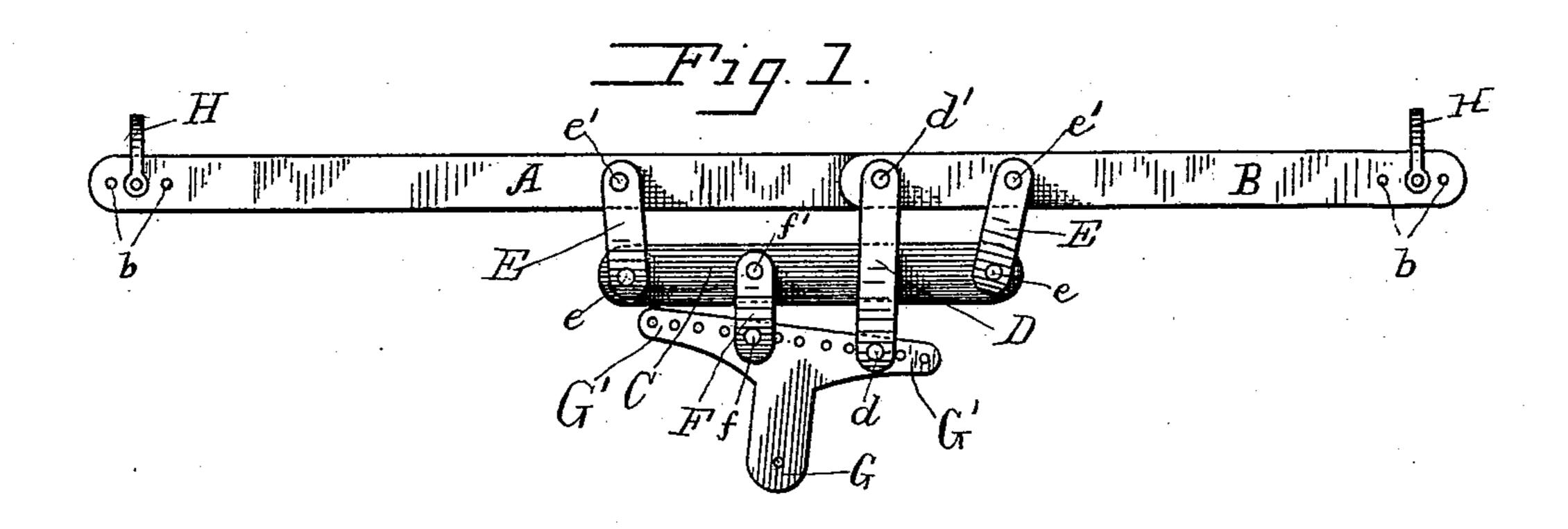
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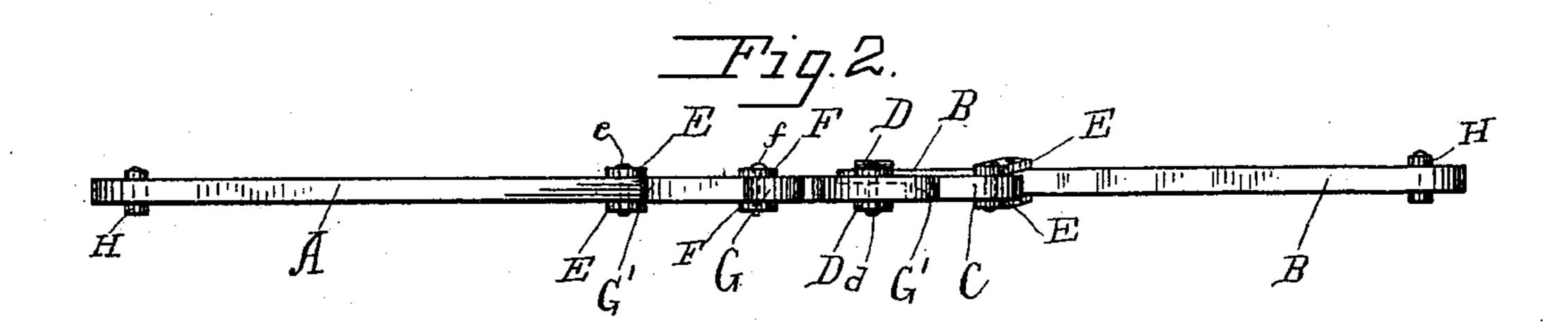
A. G. BROWN.

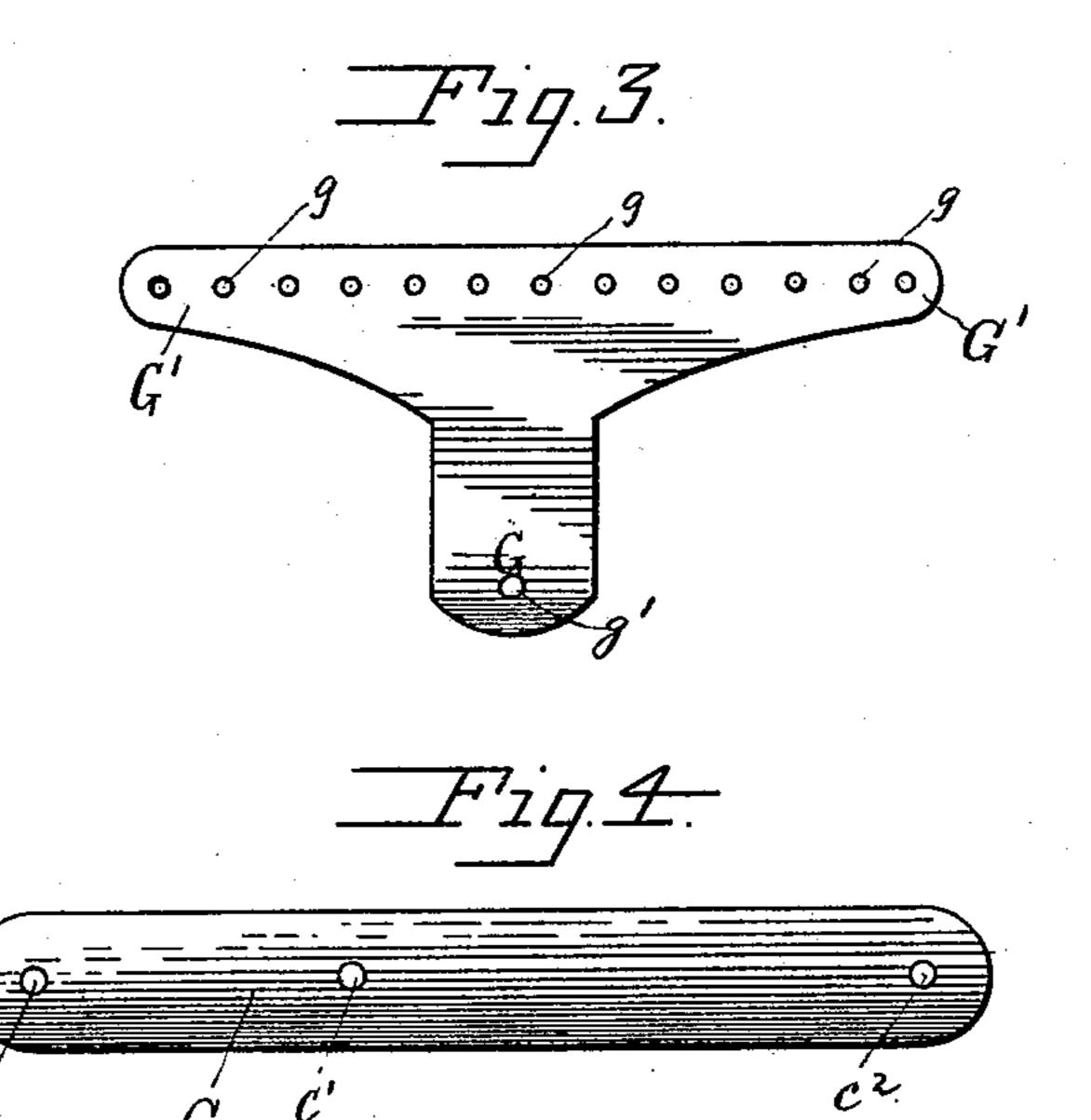
DRAFT EQUALIZER.

No. 395,874.

Patented Jan. 8, 1889.







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United States Patent Office.

ALFRED GILBERT BROWN, OF EGAN, DAKOTA TERRITORY.

DRAFT-EQUALIZER.

SPECIFICATION forming part of Letters Patent No. 395,874, dated January 8, 1889.

Application filed October 25, 1888. Serial No. 289,094. (No model.)

To all whom it may concern:

Brown, a citizen of the United States, residing at Egan, in the county of Moody, Territory 5 of Dakota, have invented certain new and useful Improvements in Draft-Equalizers; and I do 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 10 it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to draft-equalizers; and its objects are, first, to effectively distribute the power applied to the load to be moved; second, to provide against frictional absorption of exerted force; third, to dispose 20 the parts correlatively so that they will severally assume and maintain any position caused by the initial movement; fourth, to provide for such interdependence of the parts that there shall be a minimum wear of the ma-25 terial; fifth, to adjust the parts so that the slightest obstacle or undue strain of the running-gear shall be equally distributed to the draft-animals, and, sixth, to attain these ends with structural simplicity and economy. Tac-

which— Figure 1 represents a plan view of a draftequalizer constructed according to the prin-35 ciples of my invention. Fig. 2 is a side elevation of the same. Fig. 3 is a plan view of. the wearing-plate, and Fig. 4 is a plan view of the intermediate evener.

30 complish these purposes by the device illus-

trated in the accompanying drawings, in

The same designations indicate correspond-

40 ing parts in all the views.

It is a fact well known to those engaged in utilizing horses that they differ in strength as much as men. As we distribute work among men according to their mental and 45 physical qualities, so we should select among animals only those fitted for the special character of work to be done. Indeed, among horses employed in the same kind of work the alloted share of each should be prescribed 50 according to his ability. To do this automatically, so that when each horse does his full duty the aggegrate power applied shall equal the work to be done is therefore the aim of my invention. The principle under-55 lying my present invention is, however, iden-

tical with that involved in the construction Be it known that I, Alfred Gilbert | shown in Patent No. 379,932, granted to me on the 27th day of March, 1888.

Two levers, A B, (sustaining to each other the proportion of one-half to five-eighths 60 of an inch,) are pivotally joined by the pin d', which also serves to connect thereto the hammer-strap D, (that is preferably one-eighth by one and one-half inch,) the other end of which is connected by the pin d to the rim 65 G' of the wear-plate G, which is for this purpose provided with a series of perforations, g. In the same series of perforations g the hammer F (preferably three-sixteenths by one and one-half inch) is variably adjusted 70 by the pin f, the other end thereof being joined to the lever C by the pin f', that passes through the perforation c', that is onethird nearer to c than it is to c^2 . The ends of the lever C are joined by the pins e to the 75 pull-straps E, whose other ends are severally joined to the levers A B by the pins e', distant from the pin d', respectively, one-

horses to the lever A. The relative adjustment of the parts is such that the duty required of each horse in 85 pulling the load secured to the wear-plate G (by a clevis whose inner end fits in the perforation g') shall be proportionate to his strength.

third and one-fourth the length of the lever

perforations 6, serve to apply the draft, one

horse being attached to the lever B and three

AB. Clevis-hooks H, inserted variably in the 80

Having thus fully described my invention, 90 what I claim is—

As a new article of manufacture, the draftequalizer herein described, consisting of the unequal levers A B, pivotally secured to each other, having terminal appliances for attach- 95 ing the draft-animals, the lever C, whose ends are respectively joined to the levers A B by the pull-straps E, as shown, and the wear-plate G, to whose rear end the load is secured, and the forward end, G', whereof is secured, re- 100 spectively, to the levers A B C by the hammer-straps DF, as shown and described, and for the purpose set forth.

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

ALFRED GILBERT BROWN.

Witnesses: . George M. Smith, A. A. SPRAGUE.