

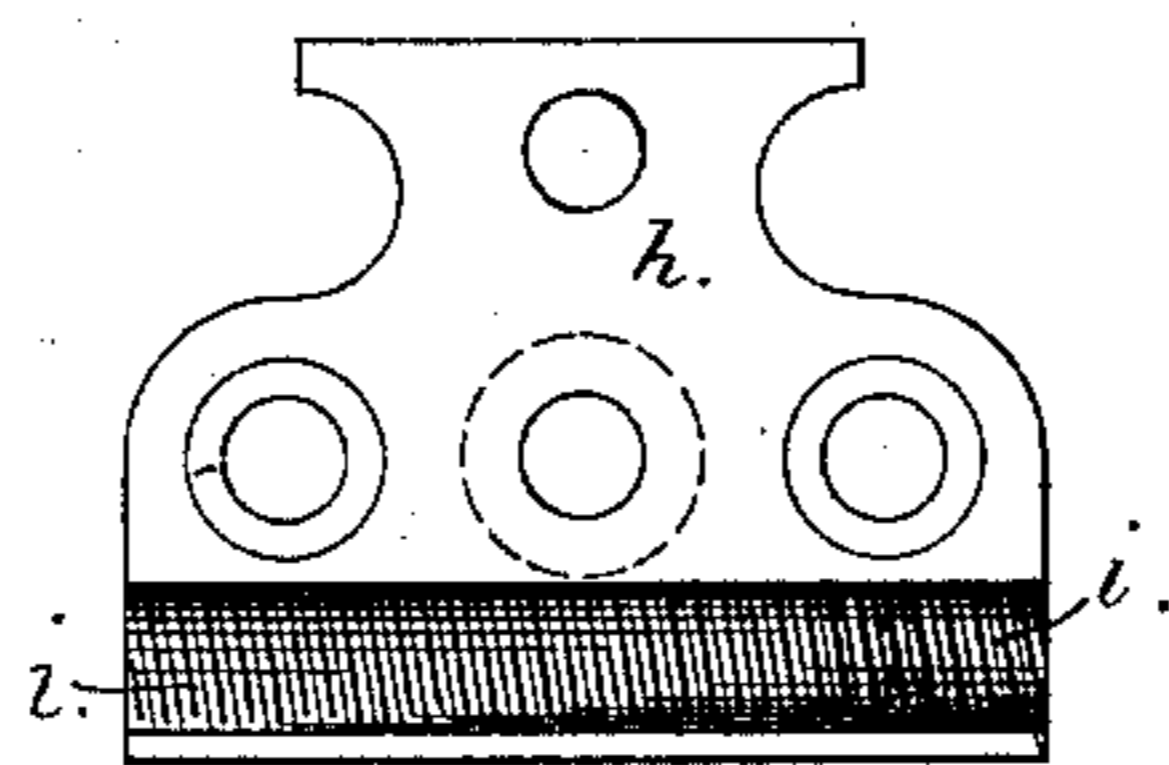
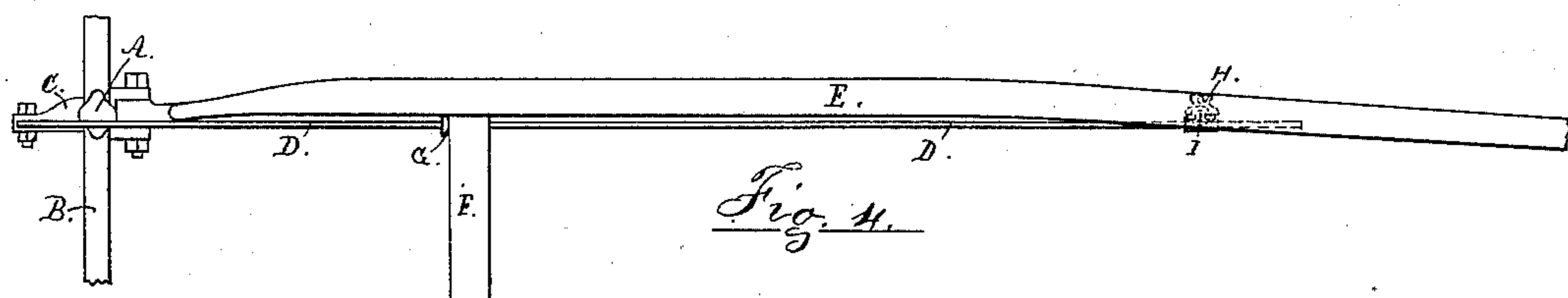
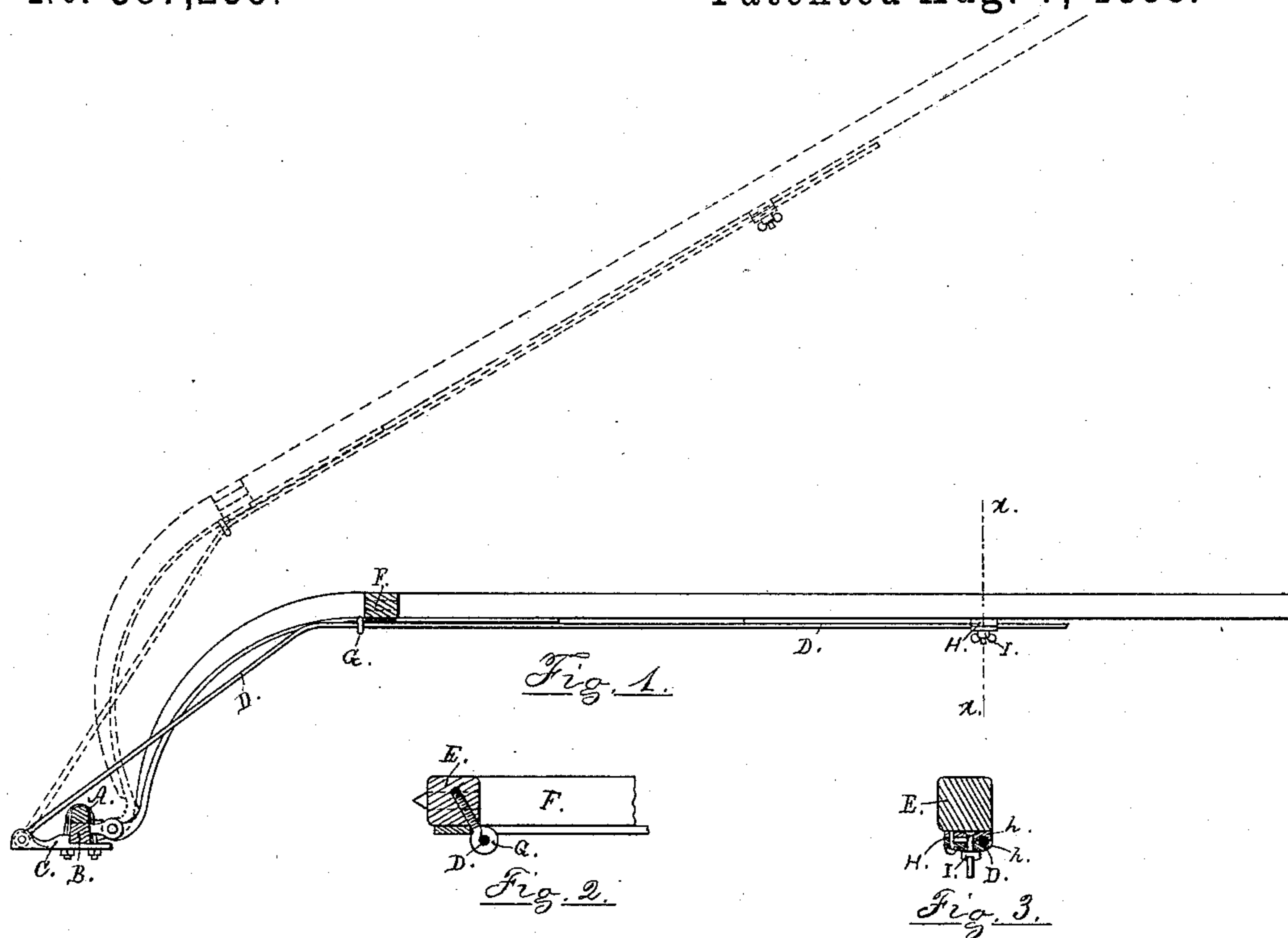
(No Model.)

H. M. POWERS.

SHAFT SUPPORT.

No. 387,255.

Patented Aug. 7, 1888.



Witnesses,

Carl A. Herr.
Geo. A. Lane

Fig. 5.

Inventor.

Henderson M. Powers.

By his Attorney
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UNITED STATES PATENT OFFICE.

HENDERSON M. POWERS, OF LANCASTER, PENNSYLVANIA.

SHAFT-SUPPORTER.

SPECIFICATION forming part of Letters Patent No. 387,255, dated August 7, 1888.

Application filed February 15, 1888: Serial No. 264,135. (No model.)

To all whom it may concern:

Be it known that I, HENDERSON M. POWERS, a citizen of the United States, residing at Lancaster, in the county of Lancaster and State of Pennsylvania, have invented certain Improvements in Shaft Supporters, of which the following is a specification.

This invention relates to that class of improvements whereby connections between the shaft-iron and shaft can be used for the purpose of sustaining the shafts at various heights.

The invention consists in details of construction, hereinafter described and claimed, the purpose of which is to provide a simple construction of easy manufacture, which construction will also furnish a complete means for connecting the rod holding the shafts with the same, whereby the elevation or depression of the said shafts may be regulated.

In the accompanying drawings, Figure 1 is a side view, partially in section, of shafts provided with my attachment. Fig. 2 is a face view of the screw-eye connecting the holding-rod with the cross-piece of the shafts. Fig. 3 is a vertical cross-section through the line $x x$ of Fig. 1. Fig. 4 is a top or plan view of one shaft with my holding-rod attached. Fig. 5 is an interior face view of one of the clamps for engaging the shaft with its sustaining-rod.

Similar letters indicate like parts throughout the several views.

A clip, A, of ordinary construction surrounds the axle B. Integral with or connected to this is an arm, C, projecting rearwardly from the under side. To the back end of this arm there is hinged a supporting-rod, D, which extends forward over the axle and along the shaft E. This rod, hinged as before stated, passes through a screw-eye, G, secured to or near the cross-bar F, thus affording a connection by which the shafts can be immediately acted upon. The rod D thence passes forward along the shaft for any desirable distance and is carried through a clamp, H, operated by a thumb-screw, I. The clamp is composed of two pieces or plates, h , in each of which is formed a semicircular serrated cavity, i .

Operation: When the shafts are raised, the thumb-screw I is tightened, clamping them in place. The groove in the inner faces of the clamps H is serrated to the more firmly hold the rod. As will be seen, the backwardly-projecting arm C gives a leverage in connection with the screw-eye G by which the power exerted to uphold the shafts can be used.

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

1. In a shaft-holder, the combination, with the axle of a vehicle, of a rod hinged to an arm extending rearwardly from said axle, the said rod projecting forward along the shaft through a staple at or near the cross-piece of the shafts, and a device for adjustably connecting the rod and shaft, substantially as and for the purpose specified.

2. In a shaft-holder, the combination, with the axle of a vehicle, the rearwardly-projecting arm C, and a staple secured to the shaft at or near the cross-bar of the shafts, of a rod hinged to said arm C and extending forward along the shaft through the staple, and a clamp fastened to said shaft, the clamp being provided with means whereby it can be loosened about or closed upon the rod, substantially as and for the purpose specified.

3. In a shaft-holder, the combination, with the axle of a vehicle, a rearwardly-extending arm, C, and a staple secured to the shaft at or near the cross-bar F, of a rod hinged to said arm C and extending forward along the shaft through a staple, and a clamp, H, fastened to said shaft, and the clamp H, composed of two plates, h , provided with the semicircular serrated cavities i upon their inner faces and operated by the set-screw I, all constructed and operating substantially as specified.

H. M. POWERS.

Witnesses:

W. J. FORDNEY,
WM. R. GERHART.