(No Model.)

J. COLLINS.

Wagons for Gaseous Liquid Fountains.

No. 232,002. Patented Sept. 7, 1880.

Fig: 1.

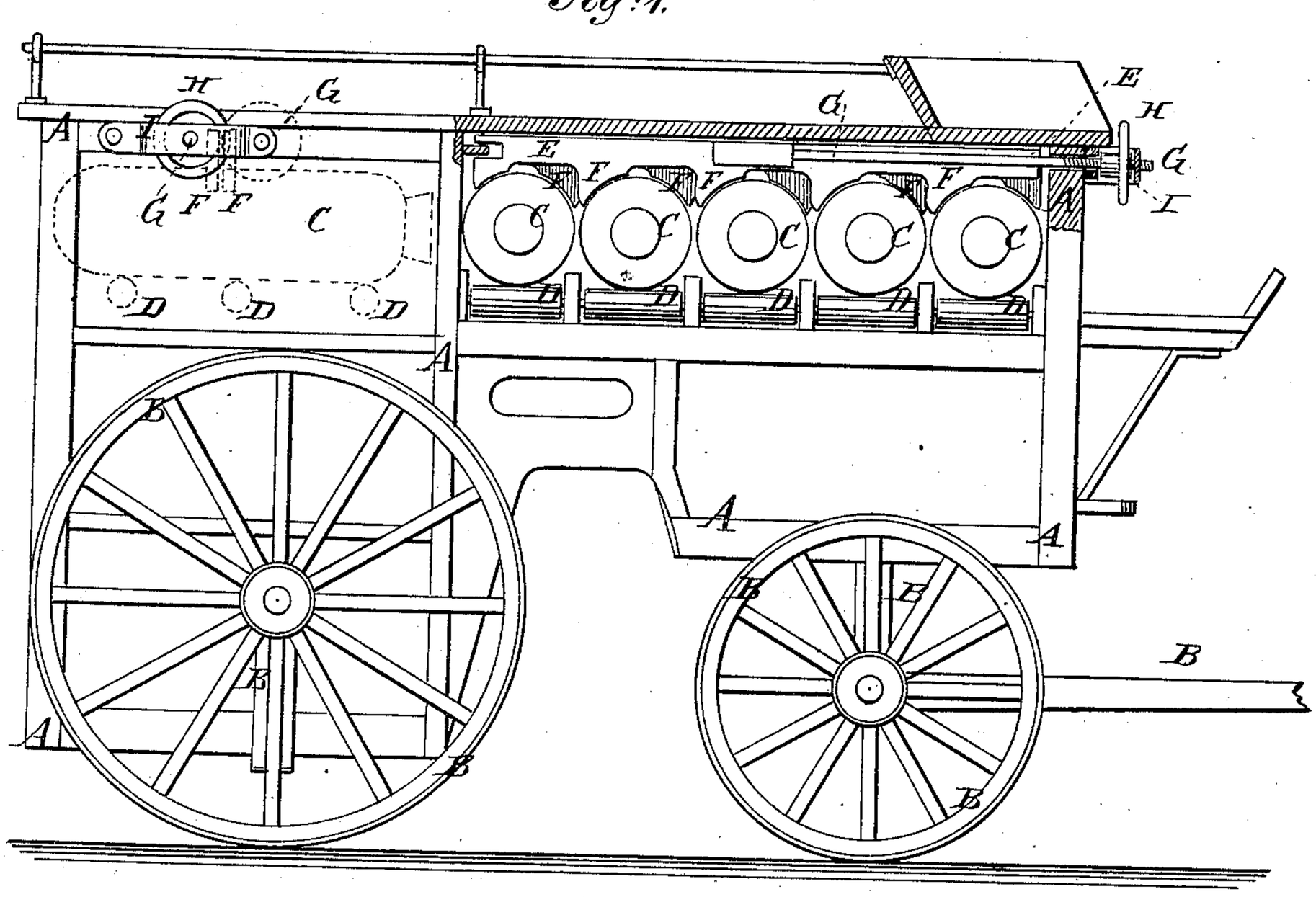
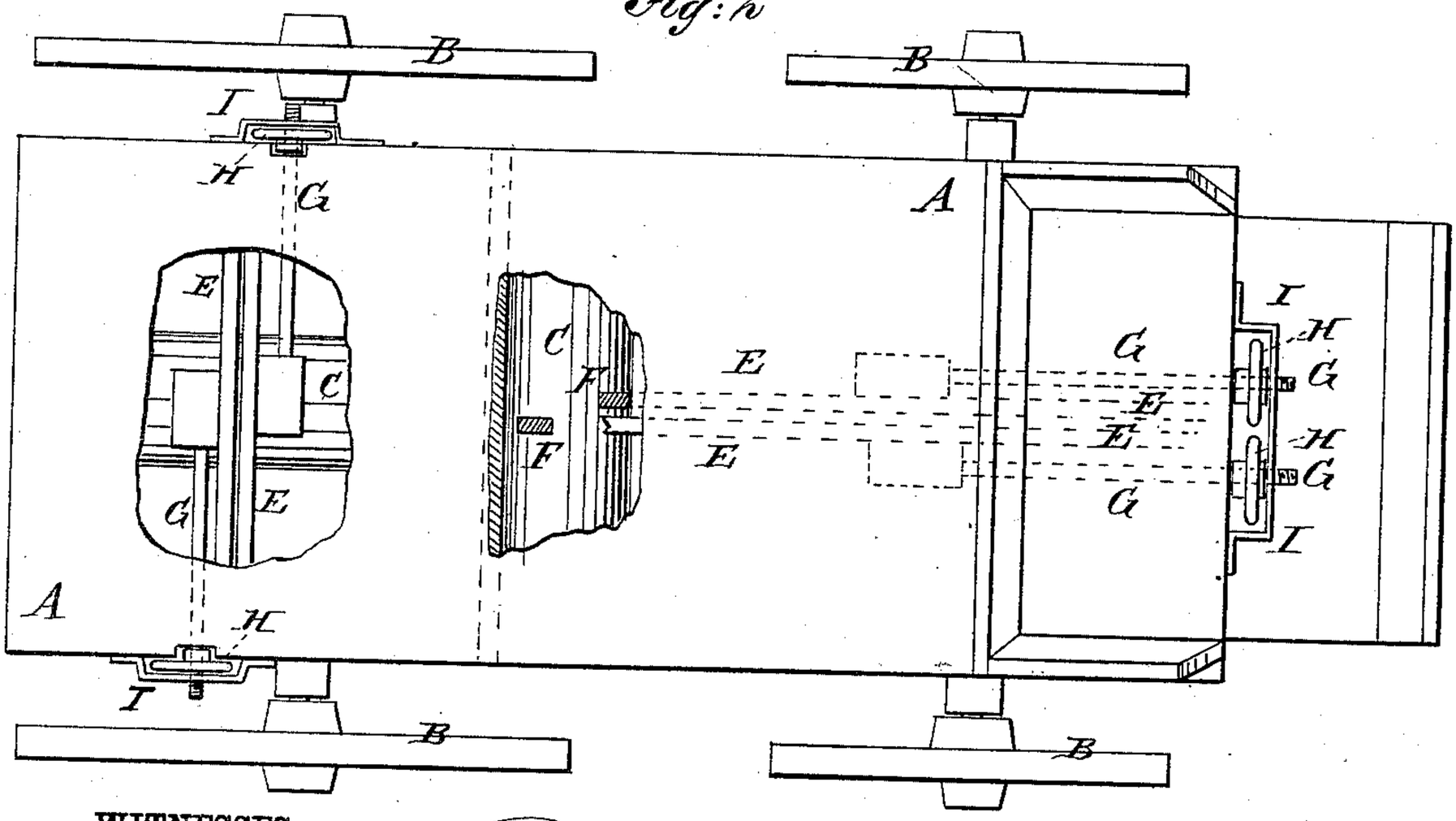


Fig: 2.



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UNITED STATES PATENT OFFICE.

JOHN COLLINS, OF BROOKLYN, NEW YORK.

WAGON FOR GASEOUS-LIQUID FOUNTAINS.

SPECIFICATION forming part of Letters Patent No. 232,002, dated September 7, 1880.

Application filed August 5, 1880. (No model.)

To all whom it may concern:

Be it known that I, JOHN COLLINS, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Wagons for Gaseous-Liquid Fountains, of which the following is a specification.

Figure 1 is a side elevation, partly in section, of the improvement. Fig. 2 is a plan view, parts being broken away.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish wagons for gaseous-liquid fountains so constructed that the fountains will be securely held in place during transportation, and can be easily, quickly, and conveniently secured and released.

The invention consists in the combination, with the body of the wagon, of sliding bars having concaved projections, so that all the fountains in a tier can be clamped and released at the same time; and also in the combination, with the wagon-body and the said sliding bars, of screw-rods and swiveled hand-nuts for operating the said sliding bars, as will be hereinafter fully described.

A represents the body, and B the gearing, of the wagon.

C are the fountains, which rest upon rollers D, pivoted to supports attached to the framework of the body A, so that the said fountains can be easily inserted and removed.

In the body A, above each tier of fountains C, are placed two parallel bars, E, upon the lower side of each of which are formed as many downward projections F as there are fountains or places for fountains in that compartment.

The projections F of one bar E of each pair project downward at the same side of the upper parts of the fountains C. The projections F of the other bar of each pair project downward at the other side of the upper parts of the fountains C. The sides of the projections next the fountains C are concaved to correspond with the curvature of the fountains C, so that they will fit snugly against the said fountains.

The bars E and projections F, or the projections F alone, may be made of vulcanized rubber, or of wood or metal faced with rubber, to cause them to clamp and hold the fountains firmly and prevent them from rubbing or wearing the fountains or otherwise injuring them.

The bars E slide upon guide-pins or other ways attached to the wagon-body A, and to the said bars, or to projections formed upon or attached to them, are attached rods G, the other ends of which project through holes in the wagon-body A, and have screw-threads cut upon them to receive the hand-nuts H.

The hand-nuts H are placed upon the screw-rods G, upon the outer side of the wagon-body A, and between the wagon-body A and keepers I, attached to the said wagon-body, to keep the said hand-nuts H in place or swivel them, so that the screw-rods G, and with them the bars E F, will be moved longitudinally by turning the hand-nuts H.

The screw-rods G may project at the same side or end of the wagon-body A, as shown in the right-hand part of Figs. 1 and 2, or at opposite sides, as shown in the left-hand part of Figs. 1 and 2, as may be desired or most convenient.

It will be observed that the bars E F of each pair are moved in opposite directions to clamp and release the fountains.

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

1. In a wagon for gaseous-liquid fountains, the combination, with the wagon-body A, of the bars E, having concaved projections F, substantially as herein shown and described, whereby all the fountains in a tier can be clamped and released at the same time, as set forth.

2. In a wagon for gaseous-liquid fountains, the combination, with the wagon-body A and the bars E, having concaved projections F, of the screw-rods G and the swiveled hand-nuts H, substantially as herein shown and described, whereby the bars E F can be operated to clamp and release the fountains, as set forth.

JOHN COLLINS.

Witnesses:

JAMES T. GRAHAM,

C. SEDGWICK.