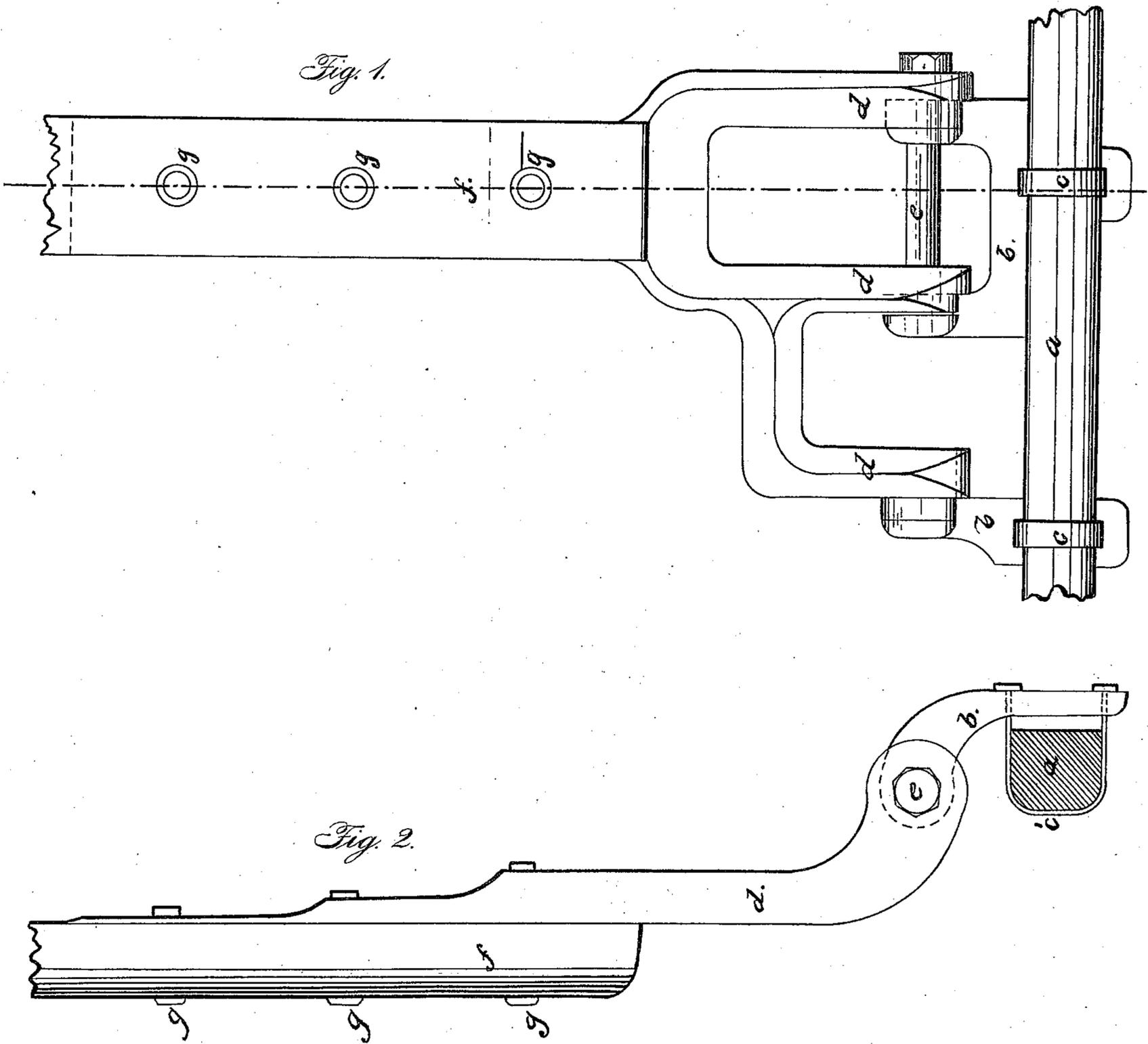


A. J. GIBSON.

Thill-Coupling.

No. 14,653.

Patented Apr. 15, 1856.



# UNITED STATES PATENT OFFICE.

A. J. GIBSON, OF CLINTON, MASSACHUSETTS.

ATTACHING THILLS AND POLES TO VEHICLES.

Specification of Letters Patent No. 14,653, dated April 15, 1856.

*To all whom it may concern:*

Be it known that I, ABRAM J. GIBSON, of Clinton, in the county of Worcester and State of Massachusetts, have invented new  
5 and valuable Improvements in the Mode of Attaching Thills and Poles to Vehicles; and I do hereby declare that the following is a full and exact description thereof, reference  
10 being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a plan of thill attached to axle. Fig. 2 is a side view of the same drawn to half size.

15 The same letters indicate like parts in all the figures.

The nature of my invention consists in attaching the thills to vehicles independent of each other. Without a crossbar by means  
20 of broad iron hinges whereby I am enabled to prevent the wearing and rattling of bolts, as no draft is put upon them. By means of this attachment I am enabled to place the horse nearer the vehicle, and attach the  
25 draft directly to the axle, at the same time avoiding the danger consequent upon the working and wearing of bolts or nuts or other fastenings in general use.

30 Having set forth some of my advantages to be derived from my invention I will now proceed to describe its several parts.

(a) represents the axle, (b, b,) the stationary parts of the movable hinge made fast to the axle (a) by means of clasps (c,  
35 c,), (d, d, d,) represent the movable part of the hinge connected to one of the station-

ary parts by the threaded bolt (e) and to the other stationary part by a threaded bolt formed on and projecting on toward and  
40 working in a threaded cylinder upon the branch part of the movable hinge, the movable part (d, d d) of the hinge is fastened to the thills or poles by the bolts (g, g, g)

The advantage to be derived from this attachment besides those previously men-  
45 tioned is that the cross bar which is usually used to connect the thills together, is dispensed with, avoiding all danger of coming in contact with the horse. It will also be  
50 seen by this arrangement the thills may be turned up when not in use and pack away closely, and much more convenient in placing the horse for the purpose of attaching  
him to the vehicle.

I do not intend to confine myself to the  
55 material used for the hinge joint neither would I confine myself to threaded bolts passing through the hinges, as a plain bolt would answer on the precise point of attach-  
60 ing to the vehicle.

Having described the several parts of my invention what I claim as new and desire to secure by Letters Patent is—

The manner of attaching thills to vehicles  
65 by means of broad iron hinges independent of each other without a cross bar for the purpose and in the manner and form substantially as set forth.

A. J. GIBSON.

Witnesses:

JOHN F. DANIEL,  
S. D. WARNER.