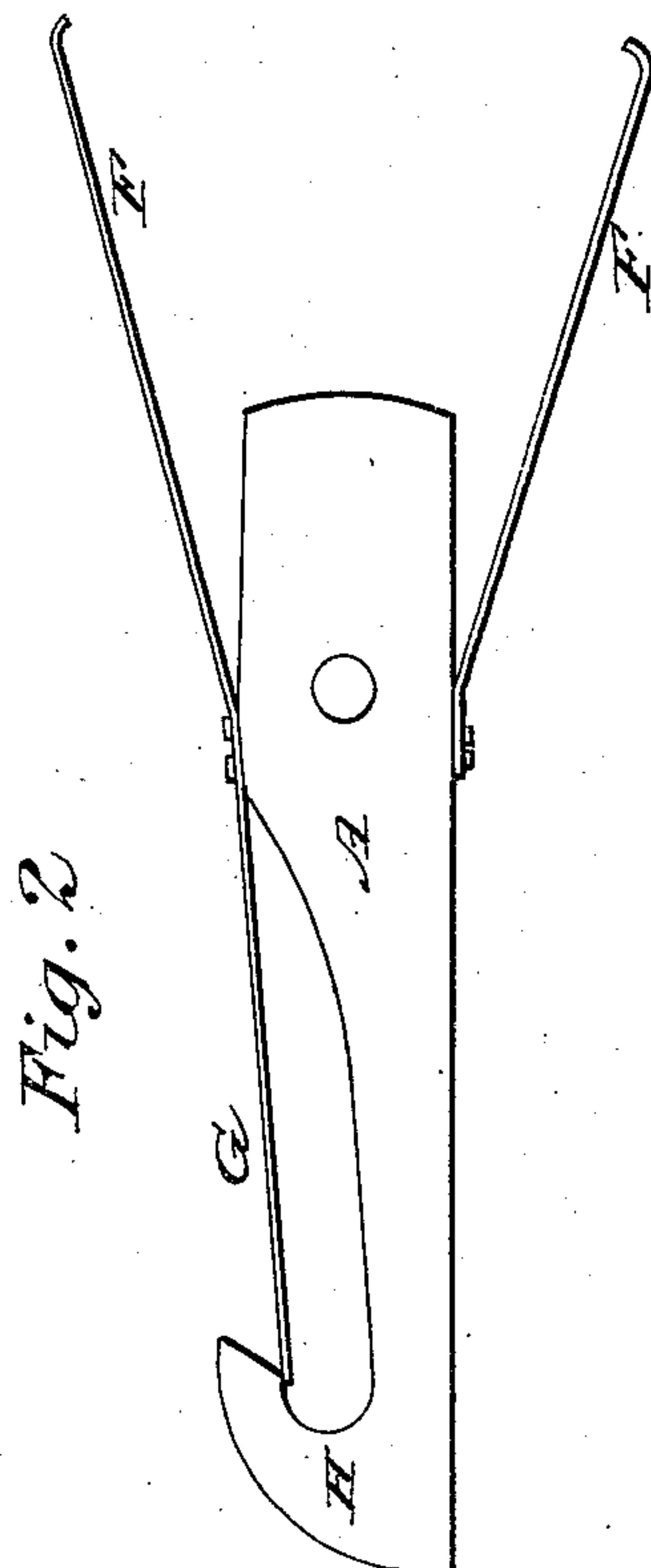
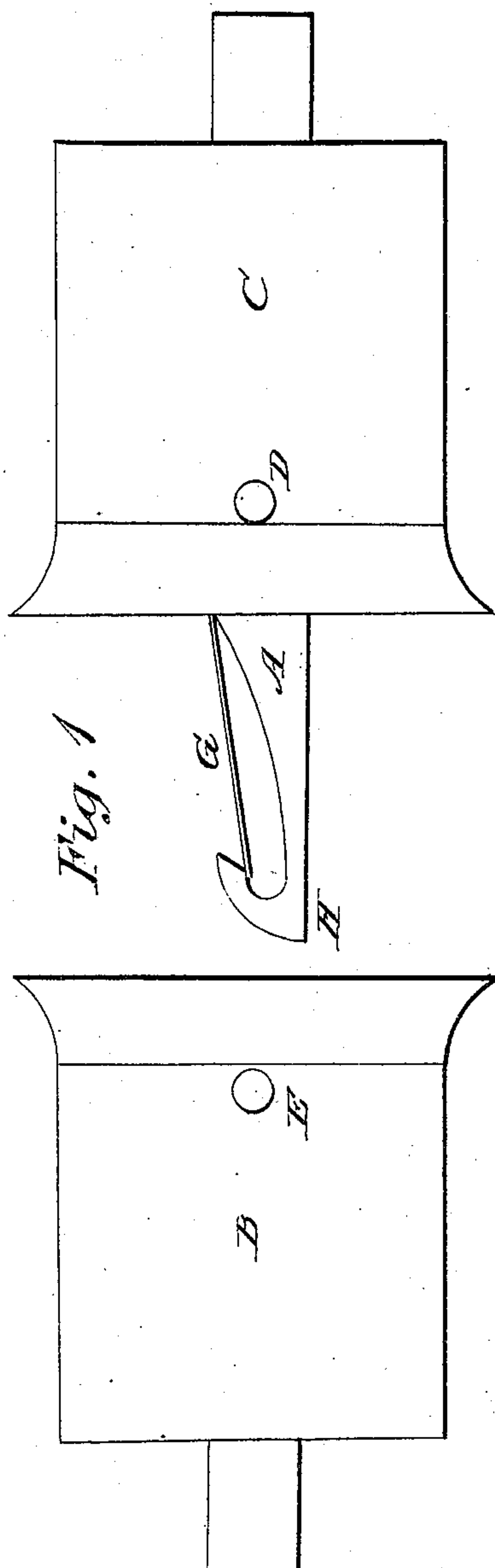


DENSMORE & VROOMAN.

Car Coupling.

No. 95,570.

Patented Oct. 5, 1869.



Witnesses:  
A B Richmond  
Rau Berninger

Inventors:  
Calvin R Densmore  
Jacob A Vrooman

# United States Patent Office.

CALVIN R. DENSMORE AND JACOB A. VROOMAN, OF OIL CITY,  
PENNSYLVANIA.

*Letters Patent No. 95,570, dated October 5, 1869.*

## IMPROVED CAR-COUPLING.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern:*

Be it known that we, CALVIN R. DENSMORE and JACOB A. VROOMAN, of Oil City, in the county of Venango, and State of Pennsylvania, have invented a new and improved "Car-Coupling;" and we do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Figure 1 represents our invention, as it appears attached to two separate cars, not coupled.

B C are two metal draw-heads, made not unlike the common draw-head, only that they are somewhat larger, or more like a "box."

H A is a hook, through which the coupling-pin D passes, (fig. 1.)

Figure 2 represents this hook detached from the coupling.

F F are two steel springs, bolted on the sides of the hook. These springs, resting on the inner sides of the draw-head C, serve to keep the hook H A in the proper position for self-coupling.

G is another spring, (or may be a continuation of one of the springs F,) the end of which passes under the end of the hook H, and prevents the cars from uncoupling.

The end of the hook H (in coupling) strikes the pin E, (fig. 1,) and is pressed one side, until the point passes the pin E, when the spring F throws it to its place, coupling the cars.

To uncouple, the pin E is drawn out.

What we claim as our invention, and desire to secure by Letters Patent, is—

The combination of the springs F and G with the hook H A and draw-heads B C, all constructed and arranged substantially as described as and for the purposes described.

CALVIN R. DENSMORE.  
JACOB A. VROOMAN.

Witnesses:

A. B. RICHMOND,  
ROE REISINGER.