

No. 883,356.

PATENTED MAR. 31, 1908.

W. H. SMITH & J. H. KLASSEN.

VEHICLE SPRING.

APPLICATION FILED FEB. 13, 1907.

Fig. 1.

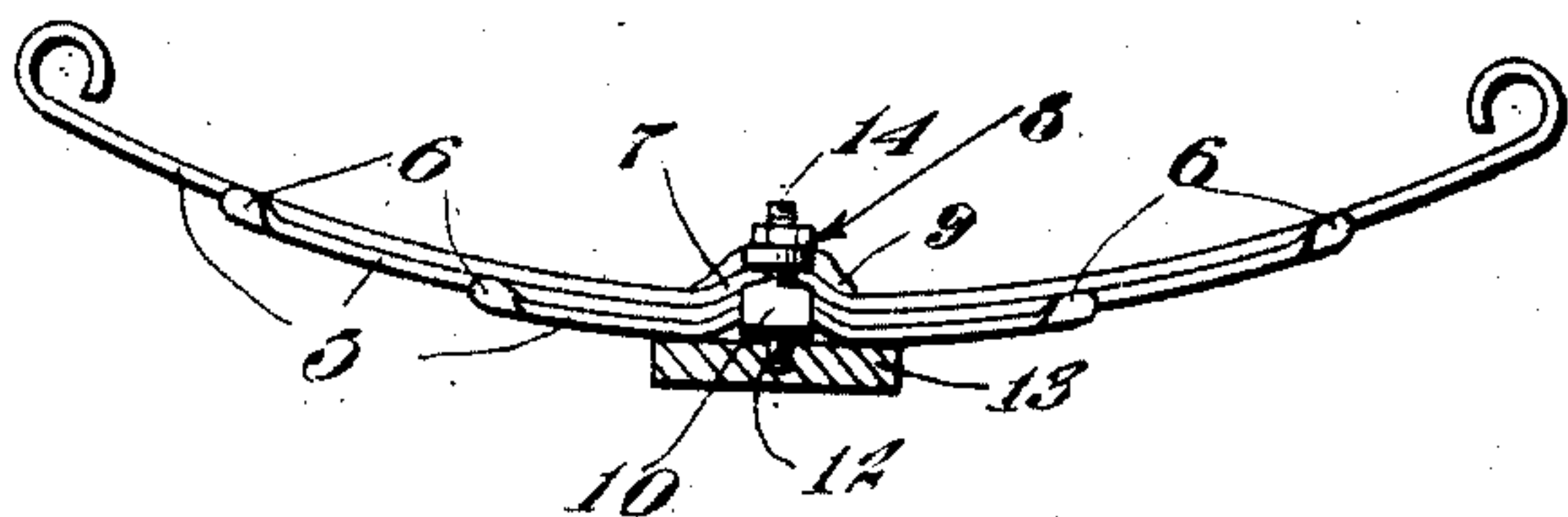


Fig. 2.

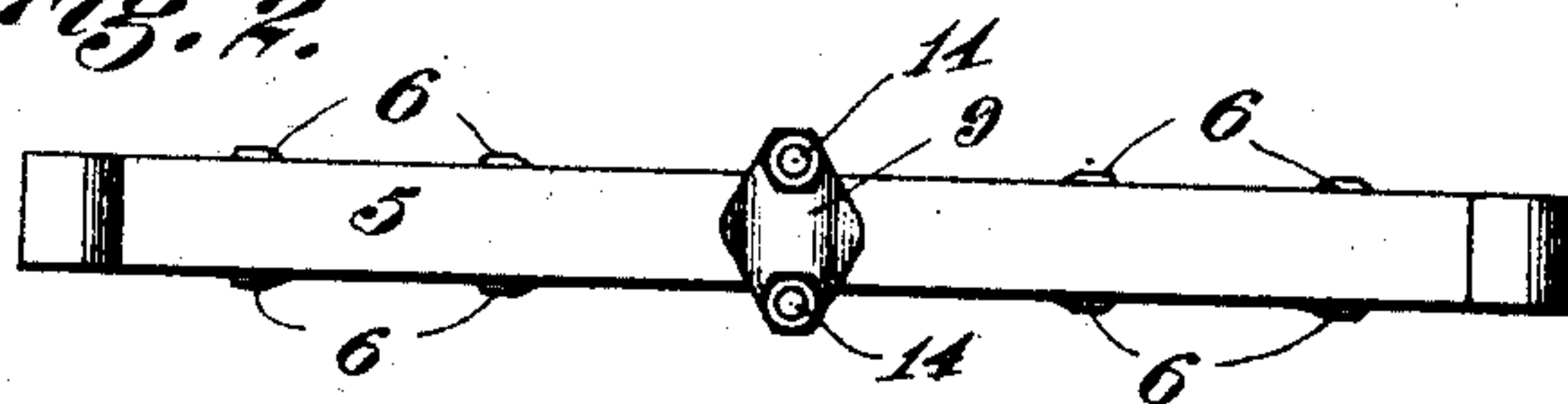


Fig. 4.

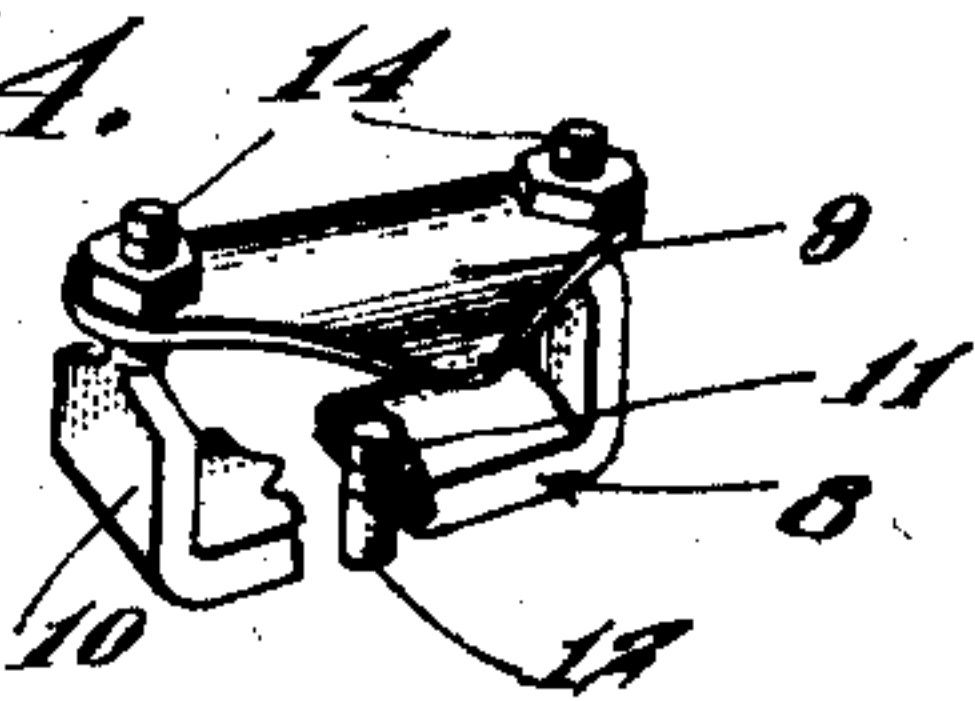
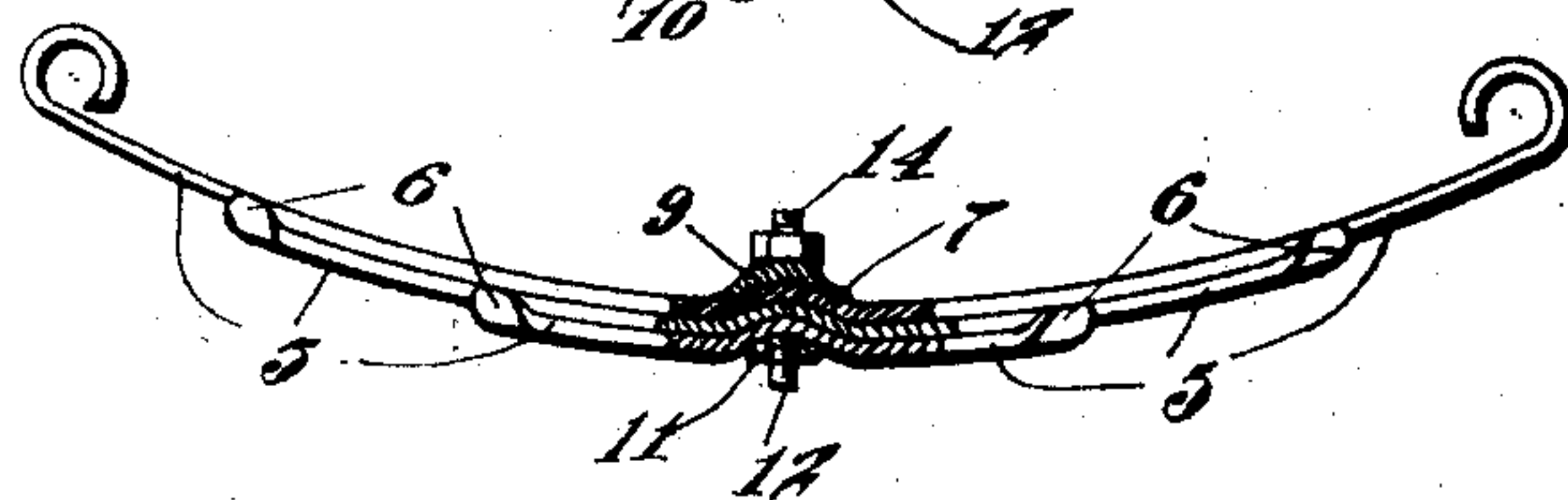


Fig. 3.



Witnesses  
J. M. Bucklew  
Majors.

Inventors  
William H. Smith  
Jacob H. Klassen  
By Hazard & Francis  
Attorneys.

# UNITED STATES PATENT OFFICE.

WILLIAM H. SMITH AND JACOB H. KLASSEN, OF LOS ANGELES, CALIFORNIA.

## VEHICLE-SPRING.

No. 883,356.

Specification of Letters Patent.

Patented March 31, 1908.

Application filed February 13, 1907. Serial No. 357,170.

*To all whom it may concern:*

Be it known that we, WILLIAM H. SMITH and JACOB H. KLASSEN, both citizens of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Vehicle-Springs, of which the following is a specification.

The objects of our invention are to provide a vehicle spring in which the usual bolt hole through the leaves thereof is dispensed with. This hole is made in the leaves for the passage of a bolt therethrough to hold the leaves in place in the conventional spring now used on vehicles. It renders the spring weak at this point and causes it to break at this point. We accomplish these objects by means of the device described herein and shown in the accompanying drawings, in which:—

Figure 1—is an elevation of a vehicle spring embodying our invention. Fig. 2—is a plan view of the same. Fig. 3—is an elevation of the vehicle spring, the center thereof being shown in vertical section. Fig. 4—is a perspective view of the leaf holding clip.

In the drawings 5 represents the leaves of the spring, on the end of which are upturned lugs 6 of usual construction to hold the ends from lateral movement. These leaves are provided in their center with an off set portion 7 to prevent the longitudinal movement of the leaves of the spring as between themselves, there being no bolt through the center of these leaves to hold them in place. To hold the leaves in contact one with the other at the center thereof, we have provided the spring holding clip 8, comprising an upper

and lower member 9 and 10 respectively. The lower member is provided with a screw threaded socket 11 for the insertion therein of the screw threaded holding bolt 12, which when screwed into place in the lower member will project below the same, the projecting end adapted to enter a socket in the spring holding plate 13. The lower member has upturned screw threaded ends 14 adapted to hold the cap 9 of the clip firmly in contact with the off set portion 7 of the spring. By this arrangement it will be seen that the center of the leaf of the spring is not weakened by the usual bolt hole therein and the leaves are detachably held in place while the ends of the various leaves have a sliding contact with the companion leaves, giving the spring all the advantages of the ordinary spring with the element of weakness in the center thereof removed.

Having described our invention what we claim as new and desire to secure by Letters Patent is:—

In a vehicle spring, a leaf securing clip, comprising an upper and a lower member, the lower member provided with an outwardly projecting lug adapted to enter the spring holding plate, in combination with a spring having a plurality of leaves, the said leaves being provided with an off set portion.

In witness that we claim the foregoing we have hereunto subscribed our names this 6th day of February, 1907.

WILLIAM H. SMITH.  
JACOB H. KLASSEN.

Witnesses:

HENRY T. HAZARD,  
EDMUND A. STRAUSE.