

A. MONTEL.
AUTOMOBILE.

APPLICATION FILED MAR. 21, 1912.

1,035,461.

Patented Aug. 13, 1912.

2 SHEETS—SHEET 1.

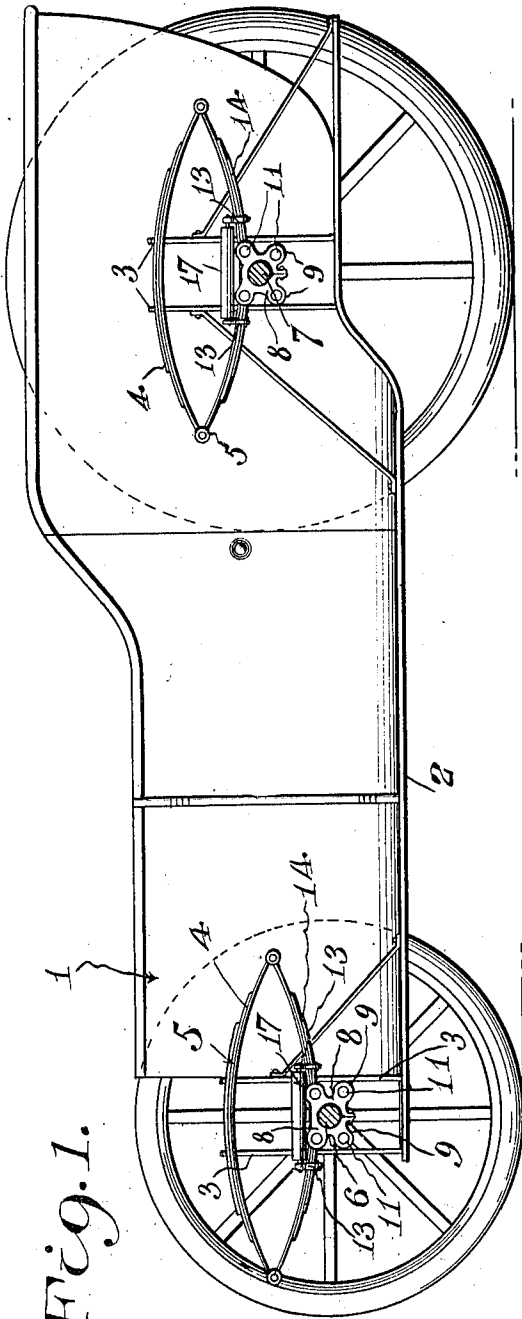


Fig. 1.

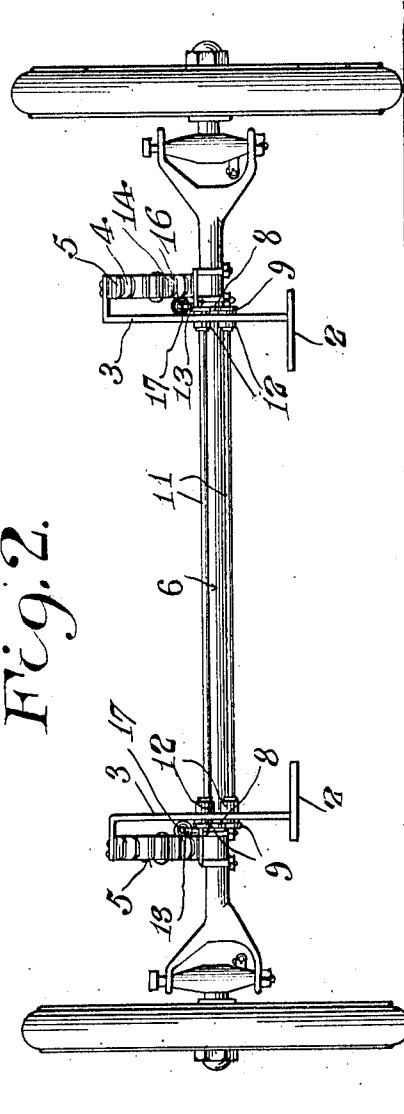


Fig. 2.

Witnesses

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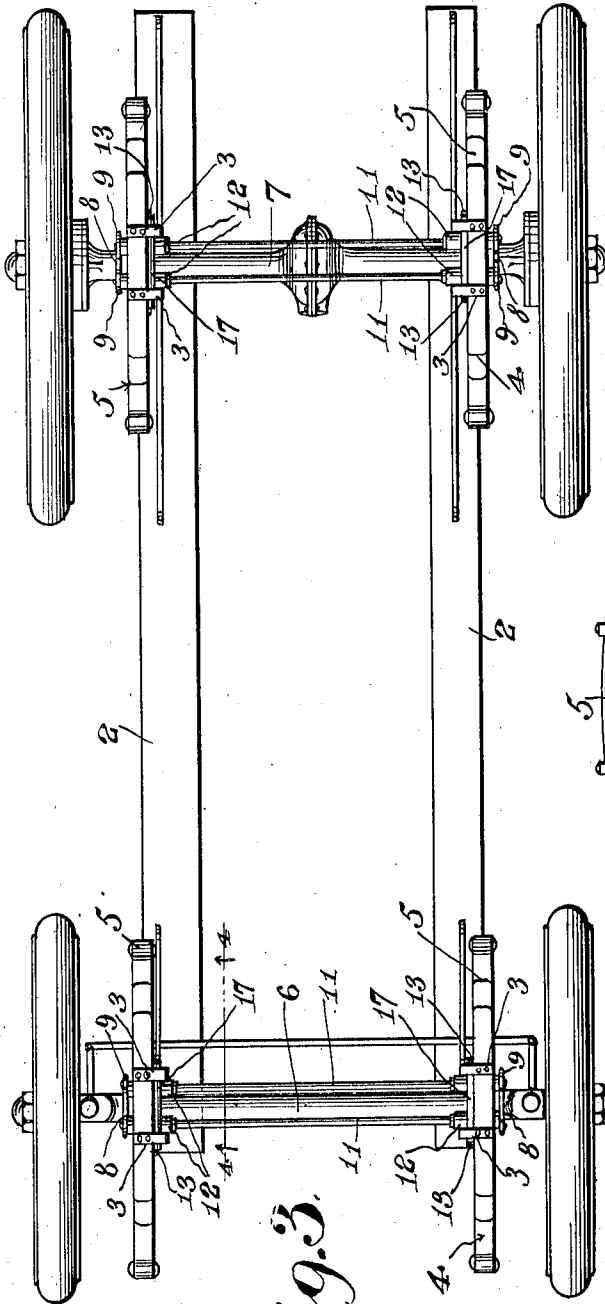


Fig. 3.

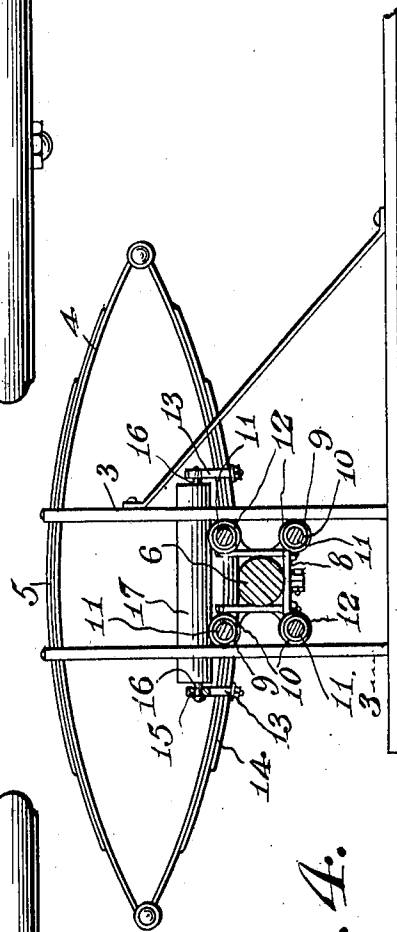


Fig. 4.

Witnesses:—

J. P. Wahler.
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UNITED STATES PATENT OFFICE.

ALVA MONTEL, OF CLAYPOOL, INDIANA.

AUTOMOBILE.

1,035,461.

Specification of Letters Patent.

Patented Aug. 13, 1912.

Application filed March 21, 1912. Serial No. 685,342.

To all whom it may concern:

Be it known that I, ALVA MONTEL, a citizen of the United States, residing at Claypool, in the county of Kosciusko, State of Indiana, have invented certain new and useful Improvements in Automobiles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in automobiles, and particularly to the manner in which the body is supported by the axles. The invention has for its object to provide a new and novel means, whereby the bottom of the body is suspended below the plane of the axles.

With these and other objects in view, the invention consists in certain novel features of construction, combination and arrangement of parts as will be hereinafter fully described and claimed.

In the drawings: Figure 1 is a side elevation of an automobile. Fig. 2 is a front elevation. Fig. 3 is a top plan view of the frame. Fig. 4 is a sectional view on line 4-4 of Fig. 3.

Referring to the drawings, the numeral 1 designates the body of an automobile to the under surface of which is secured the longitudinal sills 2. To the front and rear ends of the sills 2 are secured a pair of spaced vertical uprights 3, the upper ends of which being bent at right angles and are bolted to the upper section 4 of the elliptical spring 5 commonly used upon automobiles.

Adapted for vertical movement between the uprights 3 are the front and rear axles 6 and 7, respectively, each of which being provided near its ends with clamps 8, said clamps being provided with four ears 9, the same being so arranged that each pair assumes a vertical aligned position upon the inner and outer sides of the axles, as clearly shown in Fig. 1 of the drawings.

Each ear 9 is provided with a bearing 10

for supporting the opposite ends of the rods 11. Mounted upon the opposite ends of the rods are friction rollers 12, said rollers being adapted to contact with the opposing faces of the uprights 3, thus permitting the axles to move vertically between said uprights, and without friction during the travel of the automobile.

A pair of clips 13 are secured to the lower section 14 of the spring 5, and in spaced relation thereon. Each clip is formed with an eye 15 for rotatably supporting the trunnions 16 of the rollers 17, said rollers serving to receive the end thrust of the vertical uprights 3 incident to the swinging movement of the body 1 when the vehicle is in motion.

From this construction it will be seen that wheels of equal diameter may be used, and if desired wheels of unequal diameter may be employed. It will be apparent that this construction will permit the use of wheels of the same diameter upon the front and rear axles. If desired the rear axle could be mounted upon the sills 2 nearer the front axle, thus the load in the rear seat could be supported rearwardly of the rear axles.

What is claimed is:

An automobile body having longitudinal sills secured to its under surface, a pair of spaced vertical uprights secured to each end of said sills, axles adapted for vertical travel between each pair of uprights, spring mounted upon the axles, said uprights having their upper ends connected to the springs, clamps secured near each end of said axles, rods having their opposite ends supported by the clamps, friction rollers mounted on the ends of said rods and being adapted to contact with the opposing faces of each pair of uprights, as and for the purpose set forth.

In testimony whereof, I affix my signature, in presence of two witnesses.

ALVA MONTEL.

Witnesses:

WILLIAM F. HELLER,
JOHN L. SAUSAMAN.