

(No Model.)

D. L. BARNES.
CENTER BEARING PLATE FOR VEHICLES.

No. 468,471.

Patented Feb. 9, 1892.

Fig. 1.

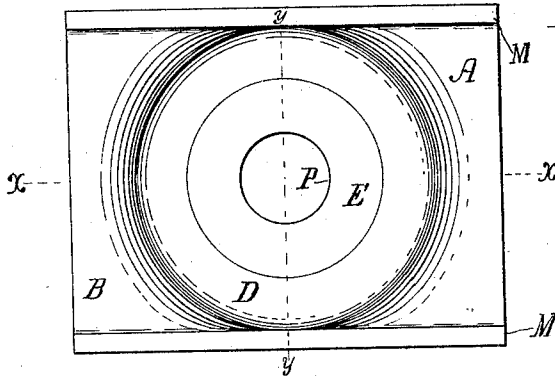


Fig. 2.

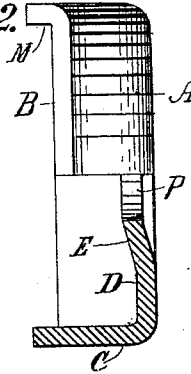


Fig. 3.

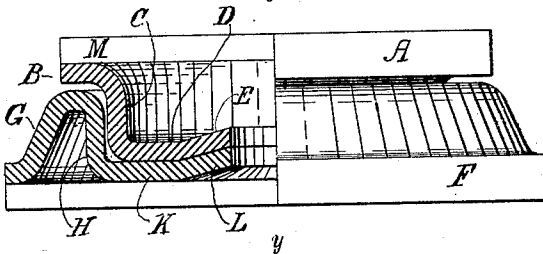


Fig. 4.

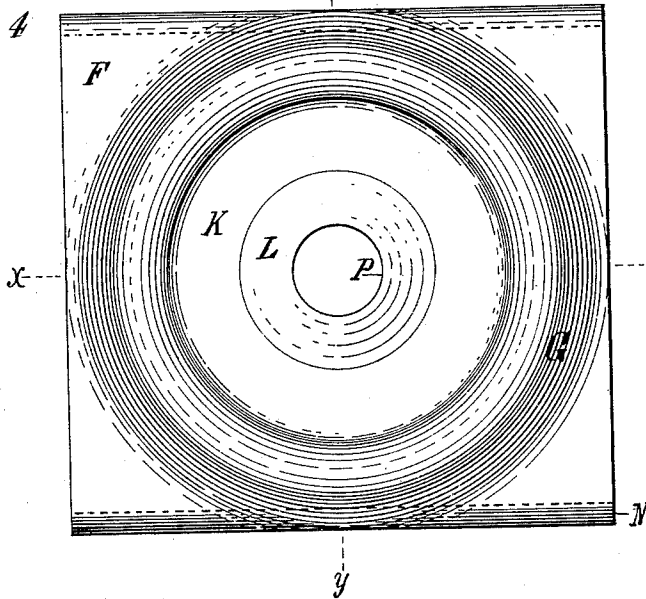
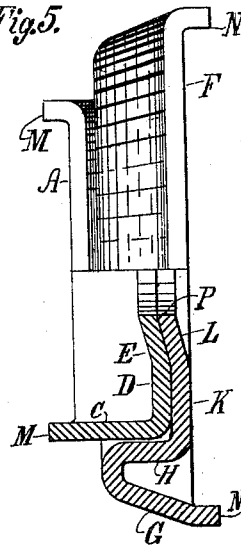


Fig. 5.



WITNESSES:

Wm. A. Pollock
Anthony Mel

INVENTOR
David L. Barnes

BY N. D. Barnes
ATTORNEY.

UNITED STATES PATENT OFFICE.

DAVID L. BARNES, OF CHICAGO, ASSIGNOR TO THE FOX SOLID PRESSED STEEL COMPANY, OF JOLIET, ILLINOIS.

CENTER-BEARING PLATE FOR VEHICLES.

SPECIFICATION forming part of Letters Patent No. 468,471, dated February 9, 1892.

Application filed October 15, 1891. Serial No. 408,747. (No model.)

To all whom it may concern:

Be it known that I, DAVID L. BARNES, of Chicago, Cook county, and State of Illinois, have invented a new and useful Improvement in Center Plates for Moving Vehicles, of which the following is a full, true, and exact specification, reference being had to the accompanying drawings.

This invention relates to an improvement in center plates for moving vehicles, especially of the kind usually made of pressed steel. By it a stronger and better plate is made, and a plate is made in which the oil is retained in the manner hereinafter to be described.

My invention will be readily understood from the accompanying drawings, in which—

Figure 1 represents a plan view of the top plate; Fig. 2, a view half in perspective through Fig. 1 on the line *y y*, showing only the upper plate; Fig. 3, a view half in section and half in perspective through Fig. 1 on the line *x x*, showing both plates; Fig. 4, a top view of the bottom plate; and Fig. 5, a view half in section and half in perspective on the line *y y*, showing both plates.

The upper plate A consists, generally, of a horizontal portion B, a vertical portion C, an approximately horizontal portion D, and an inclined portion E. The lower plate F consists of the inclined portion G, the approximately vertical portion H, the horizontal portion K, and the upwardly-inclined portion L. The lower plate is turned down at its edges, having flanges N, as clearly shown in Fig. 5, while the upper plate is turned upward at its edges, as shown in M, forming upper flanges for the reception of the transom. By making the sides of the lower and upper plate vertical, as shown, the tendency of the upper plate to jump out of the lower one when the sides are inclined is greatly diminished. By turning upward the center portions of the upper and lower plates these plates are greatly strengthened, this bending upward serving as a corrugation to strengthen these portions, and the lower plate, being bent upward at its outer and inner portions, serves as a recep-

tacle for oil, which in many of the forms of plate now known flows out through the center opening and cannot be retained. By reason of the bending upward at the center of these plates a more uniform bearing and support is obtained between the plates than is the case when they are made flat, for, it being impossible to make two surfaces in dies absolutely true, there are invariably parts in which the pressure is greater than others. Openings P are left in the center for the passage of the king-bolt, as usual.

It is obvious that though the upper and lower plates are specially adapted to be used together, yet either may be used separately with any plate adapted to work with it.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A center plate formed of a single piece of pressed metal having a downwardly-projecting portion substantially vertical to embrace the upper plate, an inwardly-projecting portion at the bottom of the plate, and an upwardly-projecting portion at the center of the plate surrounding the king-bolt hole and bent at an angle to the adjacent portion, substantially as described.

2. An upper center plate having an inwardly-extending portion B, the substantially vertical portion C, the inwardly-projecting portion D, and the upwardly-projecting portion E at an angle to the portion D, substantially as described.

3. The combination of the plate A, having the parts B, C, D, and E bent as shown, with the plate F, having the parts G, H, K, and L, substantially as described.

4. The center plate A, having the parts B, C, D, and E and the flanges M M, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

DAVID L. BARNES.

Witnesses:

J. B. BRADY,
J. O. JACQUETT.