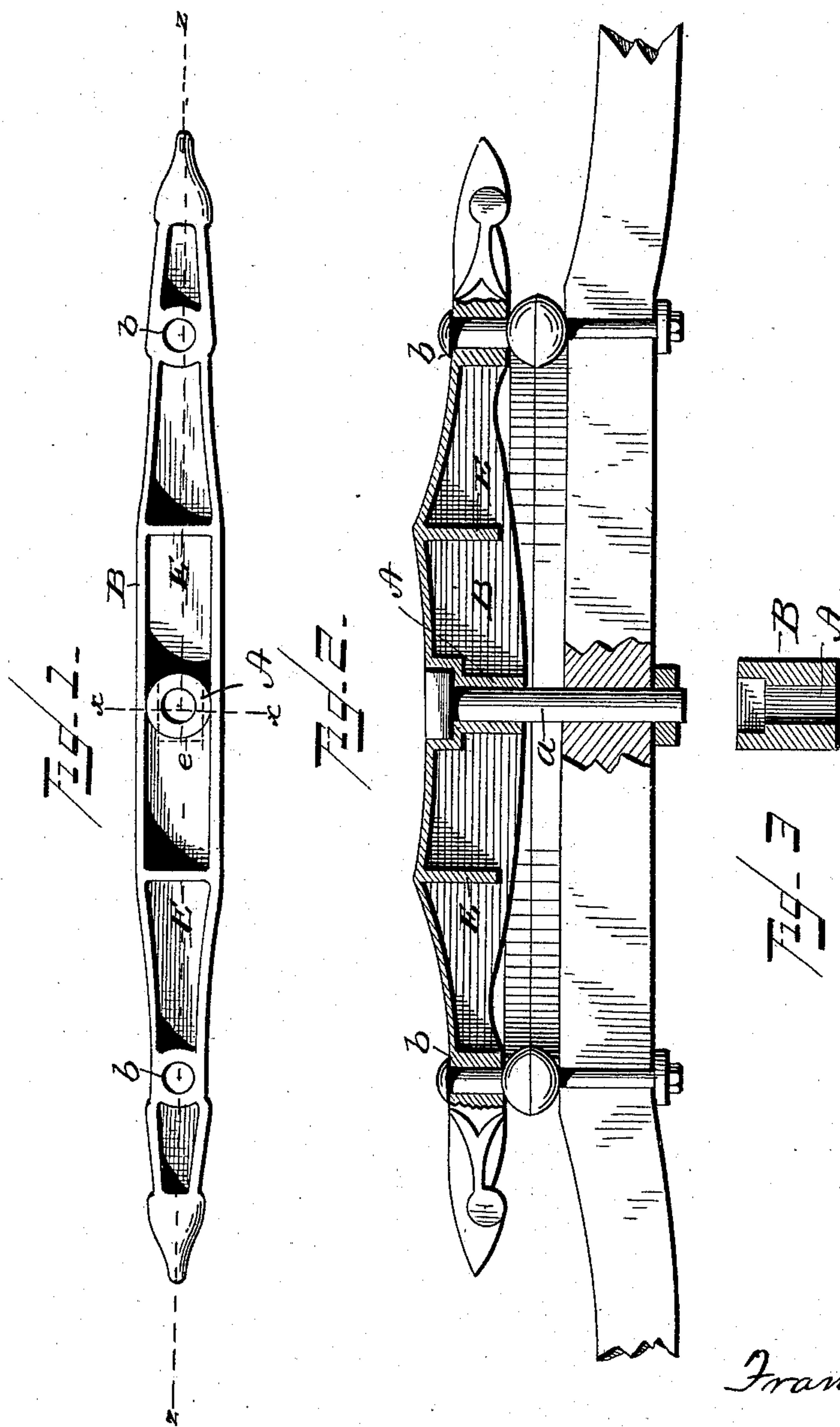


(No Model.)

F. P. CIRCLE.
HEAD BLOCK FOR VEHICLES.

No. 413,224.

Patented Oct. 22, 1889.



WITNESSES

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UNITED STATES PATENT OFFICE.

FRANKLIN P. CIRCLE, OF SPRINGFIELD, OHIO, ASSIGNOR OF ONE-HALF TO
A. PARKHURST, OF SAME PLACE.

HEAD-BLOCK FOR VEHICLES.

SPECIFICATION forming part of Letters Patent No. 413,224, dated October 22, 1889.

Application filed March 13, 1889. Serial No. 303,181. (No model.)

To all whom it may concern:

Be it known that I, FRANKLIN P. CIRCLE, a citizen of the United States, residing at Springfield, in the county of Clark and State of Ohio, have invented certain new and useful Improvements in Head-Blocks; 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.

My invention relates to improvements in head-blocks for vehicles; and it consists of that part of the running-gear immediately under and supporting the spring or bolster and rigidly secured thereto.

My invention is described in the following specification, reference being made to the accompanying drawings, which are to be considered a part of this application, similar letters of reference referring to corresponding parts in all the views.

Figure 1 is a bottom view. Fig. 2 is a side elevation of a sectional view on a line with Z Z, while Fig. 3 is a sectional view on a line with X X.

The body proper of my invention, referred to as B B B, is intended to be made of iron or other suitable material, and if made of metal it is intended to be stamped or forged from one piece, thus attaining great strength and lightness, as it would be hollow its entire length from D to D. (*Vide* Fig. 2.)

A represents a hollow shaft or tube, placed in the space formed by the sides of the head-block, and firmly secured thereto at a point equidistant from the ends of such head-block, and serves the purpose of admitting the king-bolt *a*, which in turn serves the usual purpose of such bolts.

The dotted lines indicated *e* represent a square depression in the top of the head-block for the reception of the head of the king-bolt to prevent such bolt from turning.

In Fig. 1, *b b* represent a point at which the fifth-wheel may be attached if desired.

E E represent cross-bars or stays, and serve the obvious purpose of supporting and strengthening the sides B B of the head-block.

I claim that as a result of my invention I produce a head-block of the greatest possible strength with a minimum of weight.

In the foregoing I stated that the head-block was "intended to be forged or stamped from one piece," and I now desire to add that I do not wish to confine myself to the above or any particular process of making the head-block, as I have found by experience that it may be made of cast-steel by any preferred process that utilizes a low quality of pig-iron, thereby attaining great cheapness as well as strength. My head-block may therefore be cast in one piece, either with or without the fifth-wheel, as may be preferred.

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

As a new article of manufacture, a hollow metallic head-block cast integrally with all its component parts, open on its lower sides and having a cylindrical shaft A, securely attached to the inner sides of the center of the head-block to form a journal-box to receive the king-bolt, and provided with apertures for attaching the fifth-wheel, and transverse braces arranged to support the sides immediately between the center and the ends, and provided on its upper side with a bed to receive the head of the king-bolt.

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

FRANKLIN P. CIRCLE.

Witnesses:

DANIEL B. HISER,
JOHN C. MILLER.