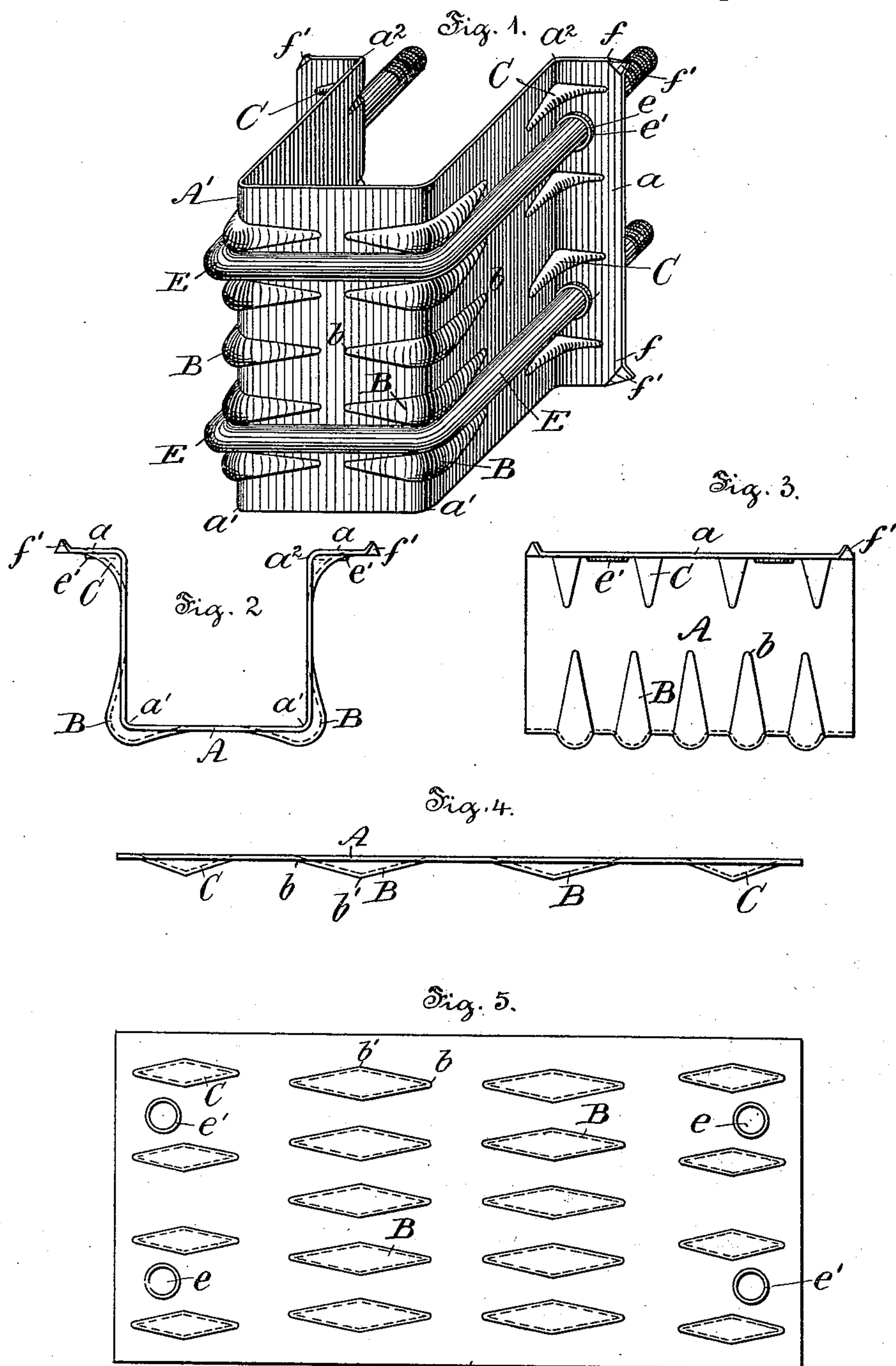


(No Model.)

J. H. EVANS.
STAKE POCKET.

No. 451,117.

Patented Apr. 28, 1891.



Witnesses.
Hermann Bornemann
Thomas M. Smith.

Inventor:
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UNITED STATES PATENT OFFICE.

JOHN H. EVANS, OF PHILADELPHIA, PENNSYLVANIA.

STAKE-POCKET.

SPECIFICATION forming part of Letters Patent No. 451,117, dated April 28, 1891.

Application filed September 13, 1890. Serial No. 364,930. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. EVANS, a citizen of the United States, residing at the city of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Stake-Pockets, of which the following is a specification.

My invention relates to sheet-metal stake-pockets for railway-cars of a type stamped or upset in or between dies.

The principal object of my invention is to provide a stake-pocket formed from sheet metal which shall be light in weight, yet strong and durable in use, and with the corners at suitable intervals apart re-enforced or strengthened by the formation of ribs and bearing-surfaces for strap-bolts in the side wings or brackets, and providing at the outside corners clips or studs adapted to engage with the wood or sills of a car-body to hold said stake-pocket in position while the strap-bolts are being secured to place, and also to assist in more firmly holding the stake-pocket ultimately to place in connection with the body of the car.

My invention consists of a sheet-metal stake-pocket constructed and arranged substantially in the manner hereinafter described, and pointed out in the claims.

The particular characteristic features of my invention will be more fully understood from the following description, taken in connection with the accompanying drawings, forming part hereof, and in which—

Figure 1 is a perspective view of a stake-pocket of my invention with strap bolts or irons shown in application thereto. Fig. 2 is a top or plan view of the same, looking from the upper edge thereof. Fig. 3 is a side elevation of the pocket with the strap bolts or irons removed. Fig. 4 is an edge or elevational view of the blank sheet from which the pocket is formed, and Fig. 5 is a plan or face view of the blank.

Referring to the drawings for a further description of the invention, A' represents the stake-pocket, made of sheet metal and provided with side wings or brackets *a*. At suitable distances apart in the blank are stamped or struck up hollow horizontal ribs B. Each of these hollow ribs B increases in width and

depth from the point *b* to the point *b'*, in order that the greatest amount of strength may be presented at the corners of the pocket so formed from the blank sheet A. At the points *a*² of the blank sheet A are struck up or stamped out at suitable distances apart hollow horizontal ribs C, which bridge the sides of the pocket with the wings or brackets *a*, thereby appreciably strengthening or re-enforcing the respective parts thereof. The strap bolts or irons E may be of any suitable construction. The opening *e*, formed in the wings or brackets *a*, are preferably struck up with flanged edges *e'* on the outer side or surface of the wing or bracket *a* to increase the length of bearing-surface on the wings *a* for the bolts or straps E. The corners *f* of the wings are formed into rearwardly-pointed studs or clips *f'*, adapted to enter the wood-work of a car-body to hold the pocket so formed, as aforesaid, in position while the strap bolts or irons are being adjusted therein and inserted into the body for securing the pocket to place in connection therewith, and presenting additional means for maintaining it more firmly after it has been fastened to the car-body.

From the foregoing it will be observed that the pocket is stiffened at all the corners thereof, and therefore it is possible to make the same out of thin sheet metal and still have the requisite strength therein to effectually overcome or resist lateral and other thrusts incident to the use of pockets in connection with car-bodies.

In the production of the stake-pocket the blank A is first cut the required size, then inserted between dies to form the hollow ribs B and C at suitable distances apart thereon, and the openings *e*, with their flanged edges, are also formed, for example, as shown in Figs. 4 and 5, whereupon the blank is then bent into shape to form the pocket A'. The several formations or steps in the production of the pocket may be carried out successively or otherwise, as preferred or found desirable in practice. The corner clips or studs *f'* may be formed after the pocket is made or upset in the dies, if desired. The corner clips or studs *f'* also give finish to the corners, and as well an ornamental appearance to the same. The hollow ribs or bridge-pieces C in some

instances may be dispensed with, as may also the clips or studs *f'* at the extremital parts of the wings or brackets *a*.

Having thus described the nature and objects of my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The herein-described stake-pocket, formed from a blank or sheet of metal and provided with integral horizontal corner ribs or projections and with bridge-pieces connected with the sides and end wings of said stake-pocket, having flanged or struck-up openings therein adapted to permit of the insertion of strap-bolts therethrough, for the purposes set forth.

2. The herein-described stake-pocket, formed from a blank or sheet of metal, provided with ribs or projections at the corners and bridge-pieces between the sides and end wings of said stake-pocket, and strap-bolts adapted to surround the end wall and sides of said stake-pocket and extend through openings in the end wings thereof, for the purposes set forth.

3. The herein-described stake-pocket, formed of a rectangular blank or sheet of metal, provided with corner ribs or projections and bridge-pieces between and connecting the sides with integral projecting end wings, and strap-bolts adapted to surround the walls of said pocket and extend through the wings thereof, for the purposes set forth.

4. The herein-described stake-pocket, formed from a blank or sheet of metal, provided with integral corner ribs or projections and bridge-pieces between and connecting the sides and integral end wings thereof and provided with clips and strap-bolts, for the purposes set forth.

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

JOHN H. EVANS.

Witnesses:

S. J. VAN STAVOREN,
WILLIAM EVANS.