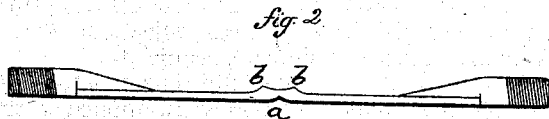
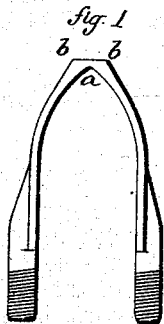


G. F. SMITH.
CARRIAGE-CLIP.

No. 186,502.

Patented Jan. 23, 1877.



Witnesses.
J. H. ...
Clara Croughton.

Geo. F. Smith
Inventor
By Atty. *Wm. ...*

UNITED STATES PATENT OFFICE.

GEORGE F. SMITH, OF PLANTSVILLE, CONNECTICUT, ASSIGNOR TO
H. D. SMITH & CO., OF SAME PLACE.

IMPROVEMENT IN CARRIAGE-CLIPS.

Specification forming part of Letters Patent No. **186,502**, dated January 23, 1877; application filed
October 9, 1876.

To all whom it may concern:

Be it known that I, GEORGE F. SMITH, of Plantsville, in the county of Hartford and State of Connecticut, have invented a new Improvement in Carriage-Clips; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a side view of the clip complete; Fig. 2, a side view of the blank preparatory to bending.

This invention relates to an improvement in what are known to the trade as "carriage-clips," with special reference to those constructed for Gothic-shaped axles—that is to say, axles which terminate in a sharp angle at the center upon the upper side; the object of the invention being to easily produce this or similar shape, and at the same time give a square or flat surface upon the top of the clip at the bend.

The invention consists in constructing the clip with a projection upon the upper side, each side the center, corresponding to the angles to be preserved in bending the clip, and the surface between the said projections depressed, all as more fully hereinafter described.

The clip is formed in dies in the usual man-

ner, and its outline may be of usual form; but upon the upper side, and equidistant from the center, projections *b b* are formed, the distance from each other equal to the plain surface required on the top of the clip, and between these two points *b b* the surface is curved downward or depressed, as clearly seen in Fig. 2, so that the thickness of the center is less, or no more, than the body of the clip. Preferably a depression, *a*, is formed upon the under side, centrally between the said two projections *b b*, when the Gothic shape is required.

The clip thus constructed is ready for market, and when applied to the axle is bent into the shape required, as seen in Fig. 1, the depression *a* upon the under side preserving the sharp bend required, while the bending will throw upward the curved surface between the two projections *b b*, those projections forming the angles, as seen in Fig. 1, and leaving the space between flat.

I claim—

As an article of manufacture, the herein-described carriage-clip, having the projections *b b* upon the upper side equidistant from the center, and with a depressed space between, substantially as specified.

GEO. F. SMITH.

Witnesses:

SIMEON H. NORTON,
E. E. PADDOCK.