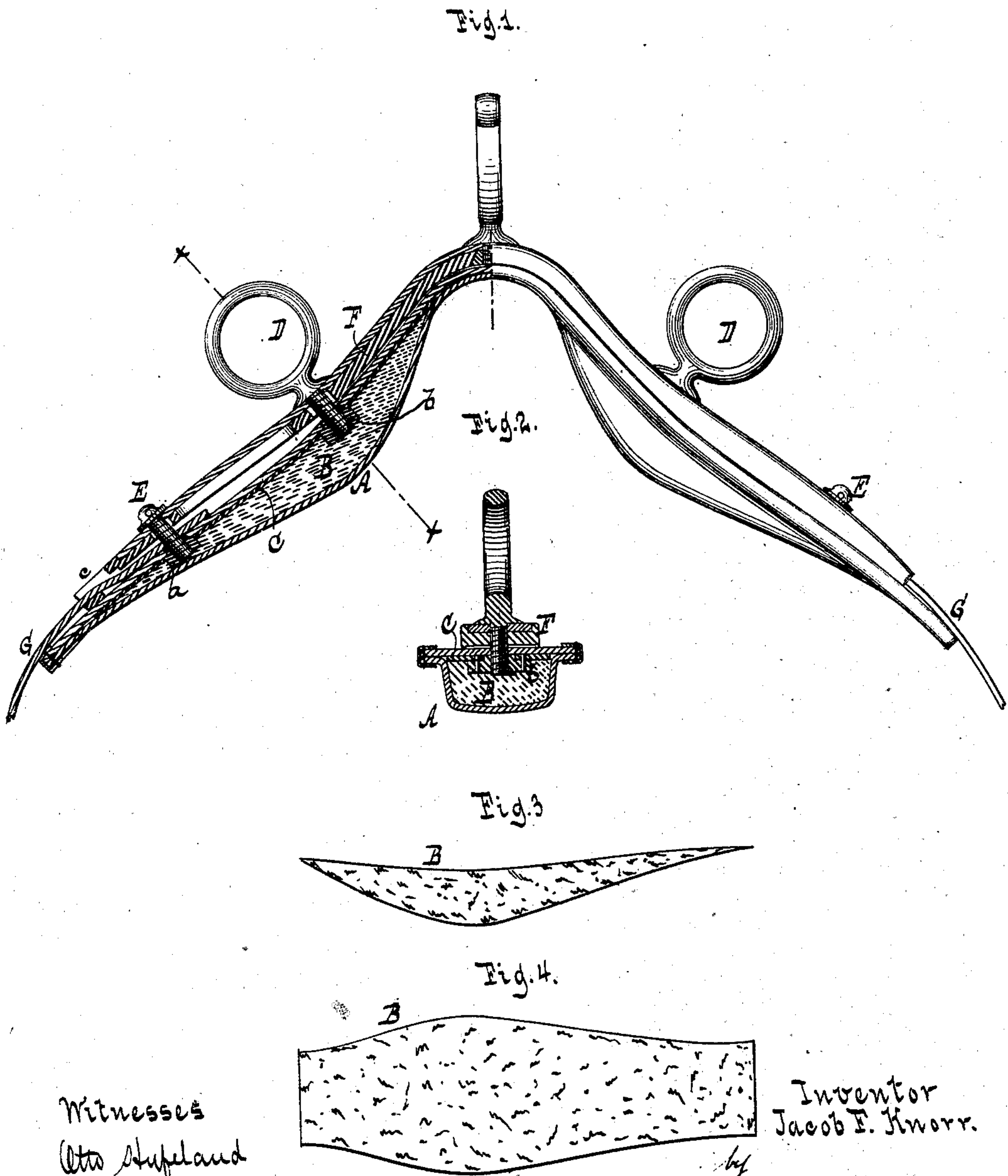


J. F. KNORR.
Harness Saddle-Pad.

No. 216,419.

Patented June 10, 1879.



Witnesses
Oto Stupeland
Wm Miller

Inventor
Jacob F. Knorr.

by
Van Santvoord & Hauff
his attornys.

UNITED STATES PATENT OFFICE.

JACOB F. KNORR, OF ORANGE, NEW JERSEY.

IMPROVEMENT IN HARNESS-SADDLE PADS.

Specification forming part of Letters Patent No. **216,419**, dated June 10, 1879; application filed November 27, 1878.

To all whom it may concern:

Be it known that I, JACOB F. KNORR, of Orange, in the county of Essex and State of New Jersey, have invented a new and useful Improvement in Harness-Saddle Pads, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings, in which—

Figure 1 represents a sectional side view of a saddle containing my improvement. Fig. 2 is a cross-section thereof in the line *x x*, Fig. 1. Fig. 3 is a side view of the pad-filling. Fig. 4 is a top view thereof.

Similar letters indicate corresponding parts.

It is the object of my invention to produce a pad which is light, elastic, durable, cheap, and not liable to lose its shape by use; and to this end it consists in a harness-saddle pad formed of granulated cork mixed with adhesive material, pressed or molded in desired shape, and provided with a stuff metallic top plate attached thereto, and having screw-threaded nuts or lugs on its under side embedded into the cork, and adapted for the attachment of the pad to the tree, as hereinafter more particularly described.

In the drawings, the letter A designates a harness-pad containing a filling, B, made according to my invention.

In preparing this filling I take granulated cork and mix therewith a sufficient quantity of glue or other adhesive substance to cause the particles of the mass to stick together, and while the mass is in a plastic state work the same into a mold of proper shape to produce a filling of the desired form. When the filling is removed from the mold it is exposed to the air, and becomes firm, but remains elastic. The density of the filling can be increased by adding to the mixture oil and litharge or glycerine or other similar substances.

A filling made as stated is extremely light, besides being elastic and tenacious, and, inasmuch as the granulated cork can be prepared from refuse shavings, the article is comparatively inexpensive.

The letter C designates a metallic plate, combined with the molded filling B. This plate C rests on the filling, and it has the same width and general outline of the latter, while to the same are secured nuts *a b* to receive the terrets D and the screws E of the saddle. The effect of the pad-plate C is to stiffen the pad and secure a bearing the full width thereof. Over the molded filling B and the pad-plate C is arranged the covering or housing of the pad, which is secured in any suitable or usual manner, so as to inclose or to embed both the filling and the pad-plate.

If desired, the foundation of this pad covering or housing may be forced into the mold used to shape the filling B, and the molded filling replaced and pressed into the same, so as to insure a uniformity in the shape of the two parts.

The pad is adapted for attachment to any particular kind of saddle-tree, its general mode of attachment being illustrated in Fig. 1, in which F is the tree of a gig-saddle, through which the screw of the terret D and the confining-screw E pass and engage with the screw-threaded lugs *a b* on the under side of the top plate, C.

Having now described my invention, I claim—

A harness-saddle pad formed of granulated cork mixed with adhesive material, pressed or molded into the desired shape, and provided with a metallic top plate attached thereto, and having screw-threaded nuts or lugs on its under side embedded into the cork, substantially as and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 23d day of November, 1878.

JACOB F. KNORR. [L. S.]

Witnesses:

W. HAUFF,
CHAS. WAHLERS.