

UNITED STATES PATENT OFFICE.

WILLIAM DIPPERT, OF DES MOINES, IOWA.

IMPROVEMENT IN CEMENT FOR UNITING PIECES OF LEATHER.

Specification forming part of Letters Patent No. **179,771**, dated July 11, 1876; application filed March 11, 1876.

To all whom it may concern:

Be it known that I, WILLIAM DIPPERT, of Des Moines, in the county of Polk and State of Iowa, have invented a new and valuable Improvement in Collar-Pads; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same.

My invention relates to an improvement in compounds for cementing together pieces of leather to form parts of harness, and is particularly applicable to the construction of collar-pads, as will be hereinafter more fully set forth.

The cement used is composed of the following ingredients, in about the proportions hereinafter described: English beer, eight parts; isinglass, two parts; linseed-oil, three parts; glue, four parts; white lead, two parts. These ingredients are thoroughly mixed together.

I do not, however, confine myself to the exact proportions of the ingredients as above mentioned, as they may be varied without impairing the efficiency of the cement.

The pieces of leather or other similar material to be united are all wet and stretched, and then coated over with the cement, as hereinbefore described, and placed in proper po-

sition on top of each other, after which they are pressed in a suitable machine for the purpose to form the pad or other parts of the harness, when two or more thicknesses of leather are to be united. When thus formed and thoroughly dried the pieces are preferably riveted at the edges and in the center, and the pad or other articles of harness is, by the action of the cement on the leather, made thoroughly elastic.

This cement is particularly applicable to collar-pads, renders the collar-pad elastic and impervious to water or dampness, and also stiffens it and makes it much more durable, retaining its form and shape.

What I claim is—

A cement, composed of English beer, isinglass, linseed-oil, glue, and whitelead, adapted to cement together pieces of leather or other similar material, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WILLIAM DIPPERT.

Witnesses:

D. M. BRINGOLF,
GEO. LENDRUM.