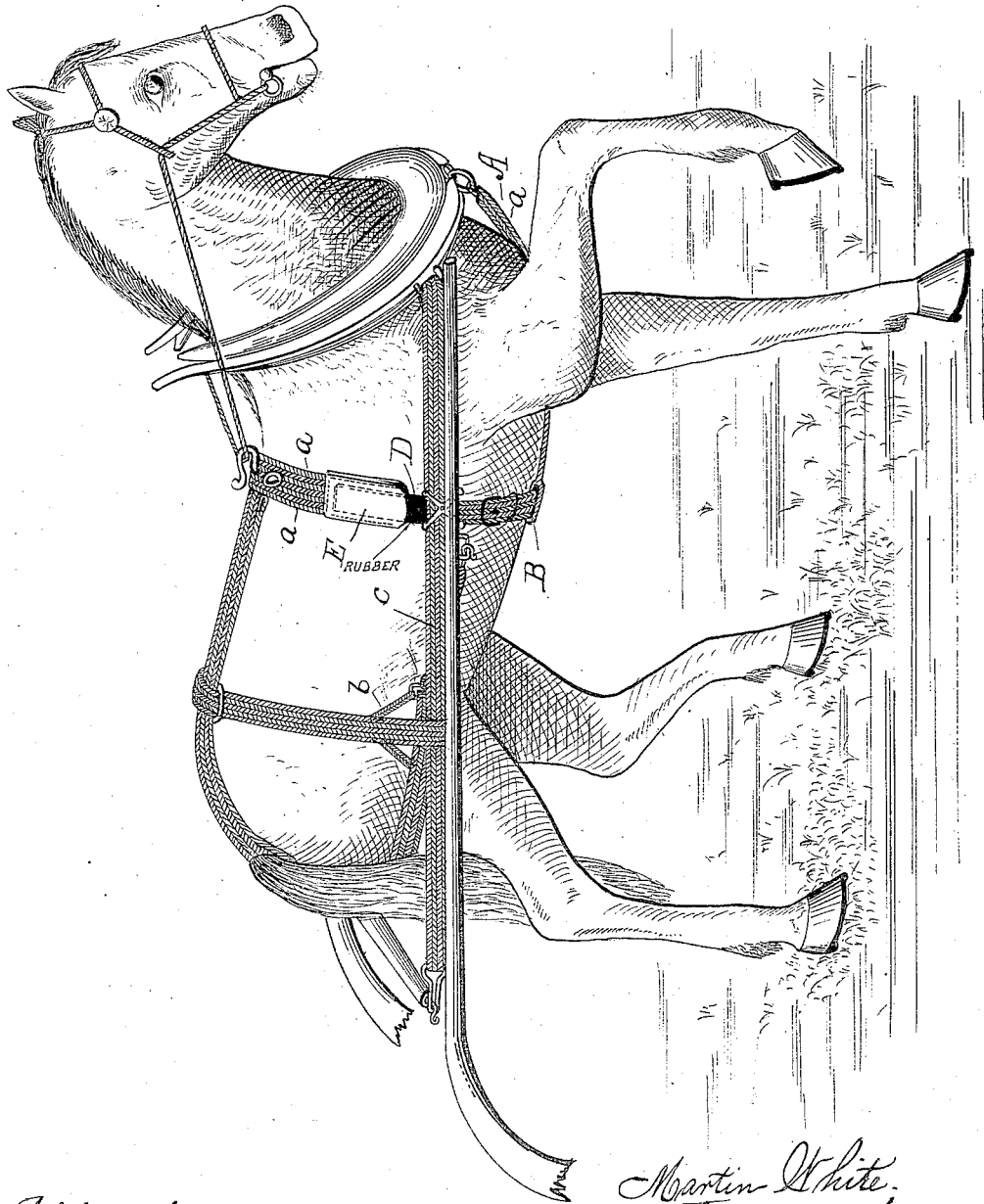


(No Model.)

M. WHITE.
ROPE HARNESS.

No. 305,768.

Patented Sept. 30, 1884.



Attest;

S. Walter Fowler
A. Johnson

Martin White.
Inventor

[Signature]
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UNITED STATES PATENT OFFICE.

MARTIN WHITE, OF ROCK RAPIDS, IOWA.

ROPE HARNESS.

SPECIFICATION forming part of Letters Patent No. 305,768, dated September 30, 1884.

Application filed January 24, 1884. (No model.)

To all whom it may concern:

Be it known that I, MARTIN WHITE, a citizen of the United States of America, residing at Rock Rapids, in the county of Lyon and State of Iowa, have invented certain new and useful Improvements in Rope Harness; 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, reference being had to the accompanying drawing, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention has reference to harness; and it consists in the improvements hereinafter described, whereby harness is produced having all the advantages of the ordinary manufacture, and is at the same time more durable and less expensive.

In the accompanying drawing the figure illustrates the application of a set of harness constructed in accordance with my invention.

In carrying out my invention I discard entirely the use of leather and substitute therefor rope or other fibrous material formed into strands. These strands are secured together to produce a band of the requisite dimensions and strength, as illustrated in the drawing. The broader bands of the harness—such as the breast-strap A, belly-band B, traces C, &c.—consist of several strands, *a*, interlocked and secured together by plaiting or weaving, the narrow portions *b* of the harness consisting of a couple of strands plaited or woven together.

In most cases it will be preferable to ap-

ply to or saturate the harness formed as before described with a preparation of pine-tar or other resinous or waterproofing agent suitable for rendering said harness impervious to the moisture.

As the said harness possesses little or no elasticity, it is necessary to interpose or incorporate in the same at points where necessary an elastic yielding section, D, preferably of rubber fabric, which furnishes the required elasticity. It being impracticable to apply the waterproofing agent to such elastic sections, I protect the same by a leather loop or pocket, E, secured to the harness, and in which the elastic section D plays.

From the foregoing it will be apparent that a harness constructed as herein set forth will not only be light and durable, but also cheap and inexpensive.

I claim—

A harness consisting of the usual back and belly bands, traces, crupper, and holdback-straps, connected together, and each consisting of two or more fibrous strands or ropes plaited, woven, or otherwise interlocked and saturated or containing a waterproofing material, and provided with the flexible sections D and inclosing-pocket therefor, substantially as set forth.

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

MARTIN WHITE.

Witnesses:

B. D. SMITH,
S. M. LOCKERBY.