

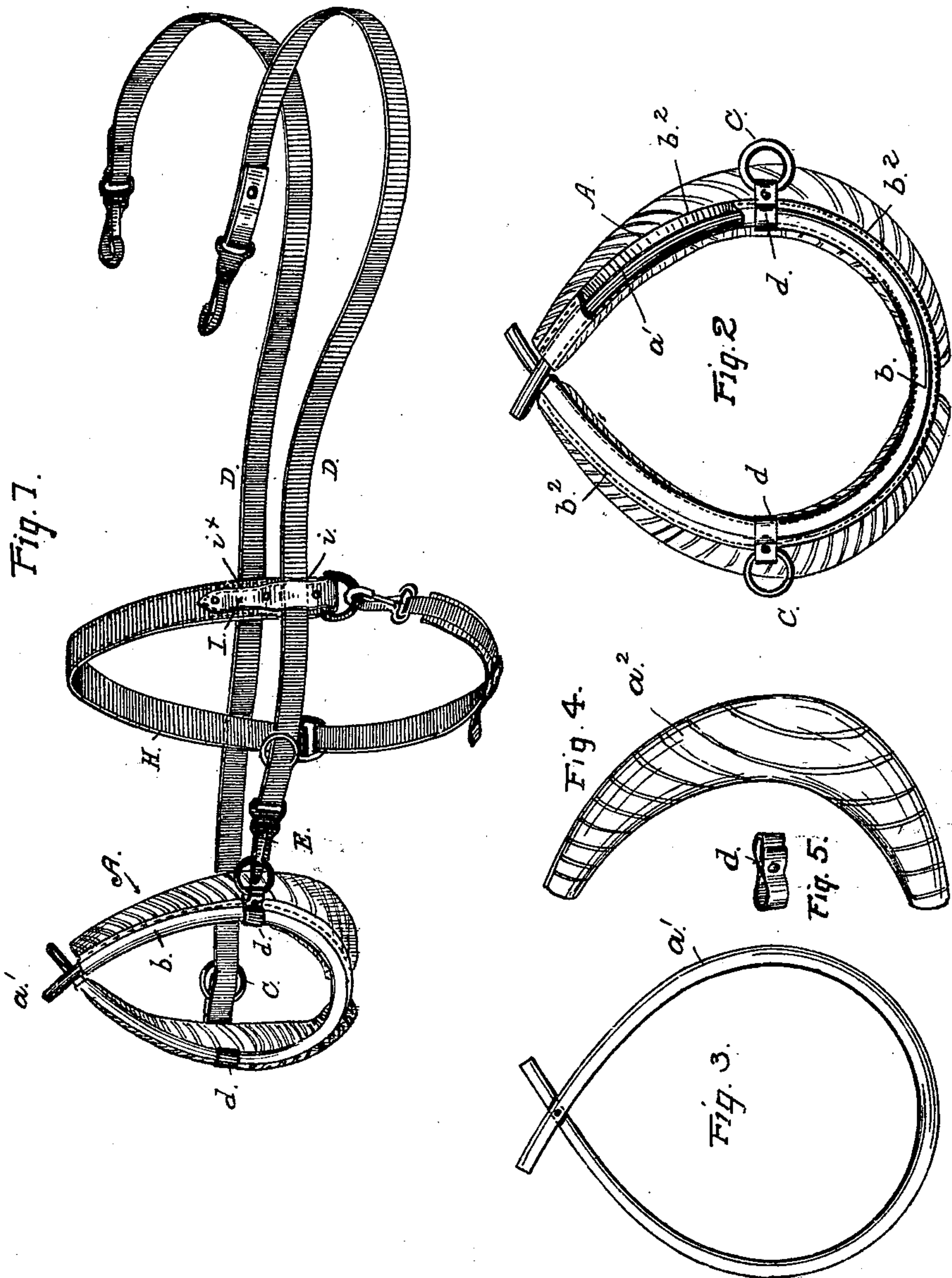
No. 631,443.

Patented Aug. 22, 1899.

B. A. SAMMANN.  
DRAFT HARNESS FOR DOGS.

(Application filed Feb. 24, 1898.)

(No Model.)



Witnesses:

*M. Regner*  
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# UNITED STATES PATENT OFFICE.

BOY A. SAMMANN, OF SAN FRANCISCO, CALIFORNIA.

## DRAFT-HARNESS FOR DOGS.

SPECIFICATION forming part of Letters Patent No. 631,443, dated August 22, 1899.

Application filed February 24, 1898. Serial No. 671,510. (No model.)

*To all whom it may concern:*

Be it known that I, BOY A. SAMMANN, a citizen of the United States, residing in the city and county of San Francisco, in the State of California, have invented certain new and useful Improvements in Draft-Harness for Dogs, of which the following is a specification.

My invention has for its object the production of a draft-harness specially adapted for use in cold countries to harness dogs to sleds; and the same consists in a novel construction of collar and a saddle and traces for use in connection therewith having certain features of adjustment, the whole forming a light, strong, and serviceable harness for the desired purpose.

The following description explains the nature of my said improvement and the manner in which I proceed to construct and apply the same, reference being had to the drawings that accompany and form part of this specification.

In the said drawings, Figure 1 represents in perspective view a draft-harness embodying my said improvements. Fig. 2 is a front view, on an enlarged scale, of the collar. Fig. 3 is a detail view of the hame before the neck-pads are fastened to it, and Fig. 4 a view of one of the pads. Fig. 5 is a perspective view of one of the metal clips which attach the trace-rings to the collar.

The collar A is formed of a stiff bow  $a'$  of wood and neck-pads  $a^2 a^2$ , which are secured to the bow in proper position to protect the neck and shoulders of the animal. The bow  $a'$  is formed of a single piece of heavy rattan or cane by bending it in a curve at the middle and then bringing the ends together over the longitudinal center line and crossing them at the top. These crossed ends are mortised into each other and fastened by nailing. Before the strip  $a'$  is bent in this manner a tubular covering  $b$  of thick leather is placed over it by wrapping a strip of such material around it and securing it by a row of stitches. This covering terminates below the point where the two ends of the bow are crossed and fastened together. Sufficient material is provided around the outer edge or side of the bow for a flap  $b^2$  to stitch this leather cover-

ing down to the pads, and thus strongly fasten the pads to the bow. This is done by a single row of stitches carried through the flaps or double thickness of leather at  $b^2$  and through the covering of the pads.

Rings or loops C are fastened to the bow  $a'$  after the covering  $b$  is placed on for attaching the traces to the sides of the collar. These rings are secured to the bow at either side by a strap or clip  $d$  of sheet metal wrapped around the bow, with the ends bent to form an eye for the trace-ring C, and then riveted together. This strap is bent closely around the bow and is kept from slipping on the bow by the same stitching that secures the shoulder-pads to the bow. Each trace is attached to the collar by a hook E. On the opposite ends of the traces are hooks G for making the traces fast to the sled.

The neck and shoulder pads are shaped as shown on Figs. 2 and 4. They are made and stuffed separately before they are secured to the bow, so that they can readily be detached from the bow for putting on new covering or making repairs.

The material for the covering should be of proper quality and properties to retain its flexibility under exposure to extreme cold and not become stiff. Common bedticking or drilling is recommended as a good material for this purpose.

The trace is loosely attached to the saddle H by means of the loop I, riveted to the outside of the saddle. This loop has two openings  $i i^x$ , one above the other, so that the trace can be shifted to raise or lower it, according to the size of the dog, the saddle being likewise adjustable to fit a larger or smaller dog.

As thus constructed my harness is specially adapted for use in the far north. It possesses the requisite strength without being heavy or oppressive to the animal and is readily repaired in those parts which are exposed to the greatest wear.

Having thus fully described my invention, what I claim therein as new, and desire to secure by Letters Patent, is—

The combination of the neck-bow  $a'$  formed of a single piece of wood bent to shape as described having its ends crossed and joined to-

gether at the top, a tubular leather covering  
inclosing the bow provided with a flap  $b^2$   
around the outer side of the bow, trace-loops  
C secured to the sides of the said bow, and  
5 the separate and detachable shoulder-pads  
 $a^2$ , secured to the bow by rows of stitching  
through the flaps.

In testimony that I claim the foregoing I  
have hereunto set my hand and seal.

BOY A. SAMMANN. [L. S.]

Witnesses:

C. W. M. SMITH,  
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