

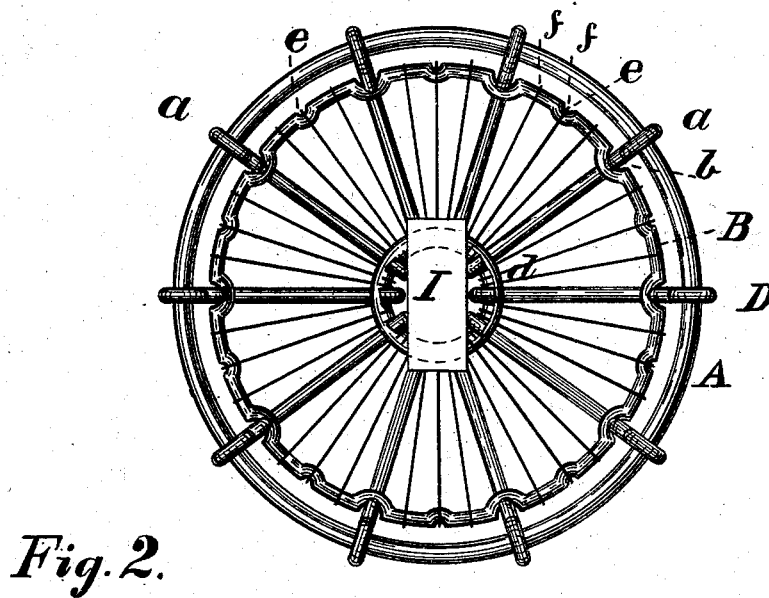
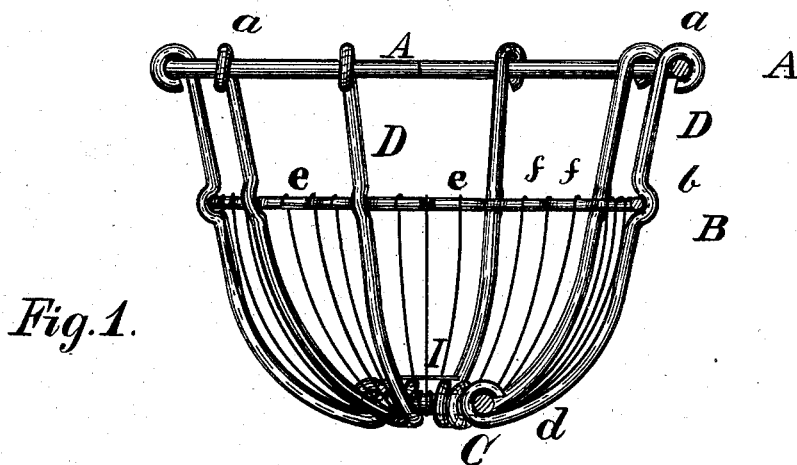
(No Model.)

S. AYRES.

MUZZLE.

No. 262,917.

Patented Aug. 22, 1882.



*Witnesses:*  
*Edward F. Tolman.*  
*Edward H. Hill.*

*Inventor.*  
*Samuel Ayres.*  
*BY HIS ATTY. J. G. Arnold*

# UNITED STATES PATENT OFFICE.

SAMUEL AYRES, OF WORCESTER, MASSACHUSETTS, ASSIGNOR TO SAMUEL  
AYRES & SON, OF SAME PLACE.

## MUZZLE.

SPECIFICATION forming part of Letters Patent No. 262,917, dated August 22, 1882.

Application filed February 20, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, SAMUEL AYRES, a resident of the city and county of Worcester, State of Massachusetts, have invented a new and  
5 Improved Muzzle, of which the following is a specification.

My invention relates to the construction of muzzles of wire in a particular manner; and it consists in the employment of stiff wire hav-  
10 ing bends or corrugations where they cross, whereby they brace, stiffen, and retain each other in place, as explained in the following description.

In the accompanying drawings, Figure 1  
15 shows a side and Fig. 2 a top view of an ox-muzzle embodying my invention, the same letters referring to the same parts in each.

A and C in said drawings are stiff rings, around which the ends of the curved wires D D  
20 are turned or clinched, the ring C forming the bottom and A the mouth or top. The wires D D are given the desired shape to form the body, and have a bend or corrugation at *b* to receive the bracing-ring B, which is corrugated  
25 or bent to correspond with each of the wires D and hold them in place, while the corruga-

tions of the wires retain the ring B securely in place. The small wires *f f* are used to fill the spaces in the lower part when desired, though, perhaps, not in all cases needed, and  
30 the plate I covers the central hole when required, being secured by small binding-wire, the whole to be suspended on the head in any of the common ways preferred.

I am aware that muzzles have been made by  
35 twisting wires around each other, like the meshes in wire-netting, and securing the whole to ring at the top. These I do not claim; but

What I claim as new, and desire to patent,  
40 is—

1. The muzzle composed of the top and bottom rings, the intermediate corrugated brace-ring, B, and the corrugated radially-curved  
45 side wires, D D, substantially as set forth.

2. The muzzle composed of the top and bottom rings, the intermediate brace-ring, B, the corrugated radially-curved side wires, D D, and the filling-wires *f f*, substantially as set forth.

SAML. AYRES.

Witnesses:

KILO WANU,  
J. G. ARNOLD.