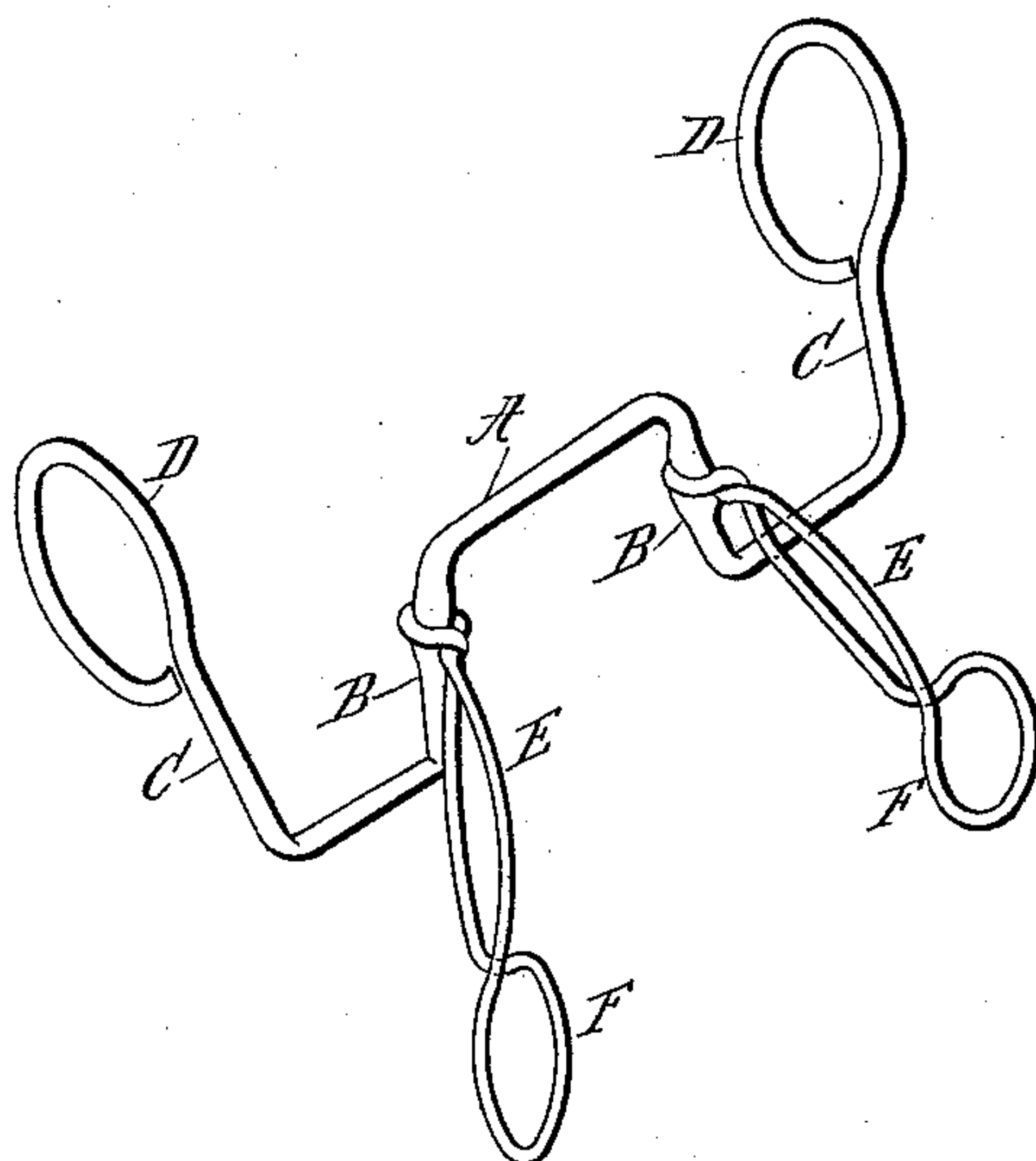


(No Model.)

M. J. DALY.
BRIDLE BIT.

No. 446,944.

Patented Feb. 24, 1891.



Witnesses:

John Buckles,

L H Osgood,

Inventor:

Michael J. Daly,

By Worth Osgood,
Attorney.

UNITED STATES PATENT OFFICE.

MICHAEL J. DALY, OF GRANTON, NEW JERSEY.

BRIDLE-BIT.

SPECIFICATION forming part of Letters Patent No. 446,944, dated February 24, 1891.

Application filed October 18, 1890. Serial No. 368,515. (No model.)

To all whom it may concern:

Be it known that I, MICHAEL J. DALY, of Granton, county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Bits for Fractional Horses, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

My invention relates to bits for fractious horses, and has for its object the production of a strong and effective bit of few and simple parts, comfortably fitting the mouth of the animal until required to curb or check him, when it may be instantly brought into action, producing a powerful grip or pressure upon the exterior of his mouth, while at the same time forcing him to release the bit, and all this without danger of cutting or inflicting other injury.

To accomplish all of this, and to secure other and further advantages in the matters of construction, operation, and use, my improvements involve certain new and useful arrangements or combinations of parts and peculiarities of construction, as will be hereinafter first fully described, and then pointed out in the claim.

In the accompanying drawing I have shown my improved bit in perspective and in its most approved form. In this form the bit-bar is bent at its central part to form a curb, bridge, or arch, of which A is the top, and B B the sides, and at its extremities to form the side pieces C C and rings D D. The sides of the curb are distant from each other about one-third the length of the bar, and upon them are hinged two side bars (represented at E E.) These latter are by preference made of one piece bent around the hinge posts or sides of the curb and spread so as to form a comparatively wide bearing against the sides of the animal's jaw, by reason of which wide bearing all cutting or injuring of the jaw is entirely obviated. The side pieces E terminate in rings F F. The rings F F receive the curb-reins, and the rings D D receive the straps by which the bit is retained in the mouth, and also, if desired, driving-reins, by which the curb will not be brought into action. When the curb-reins

are drawn, the bit is turned slightly in the mouth, forcing the animal to loosen his grip upon the bit, and at the same time the side bars are forced toward the sides of his jaws and with power proportioned to the strain upon the reins. By having the hinges or pivots of the side bars removed from each other, as indicated, the action of these bars is more nearly parallel, just enough removed from the parallel to enable any desired amount of pressure to be applied by drawing their outer or free ends toward each other, and this provision obviates the danger of cutting, such as would result from the bringing of the inner ends of the side bars at the central part of the bit.

The construction is convenient and comfortable for the animal, being of few and not cumbersome parts, and may be employed as any ordinary bit until the curbing becomes necessary.

For cheapness and strength the various rings are made continuous with the parts to which they are applied; but of course they might be made of separate pieces, if desired, and they may be of other shape than circular.

Being constructed and arranged substantially in accordance with the foregoing explanations, the improved bit has been found in practice to admirably answer the purposes or objects of the invention above alluded to.

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

The herein-described bit, consisting of the bit-bar having its intermediate portion formed with a bridge, arch, or curb and its ends provided with rings to receive the bit-retaining straps, and the side pieces having their inner portions or ends twisted around the sides of the curb and their outer ends formed with rings to receive the curb-straps.

In testimony that I claim the foregoing I have hereunto set my hand in the presence of two witnesses.

M. J. DALY.

Witnesses:

JOHN BUCKLER,
WORTH OSGOOD.