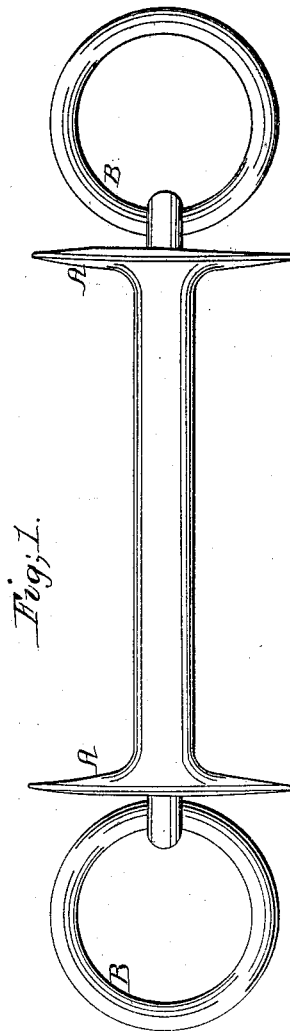
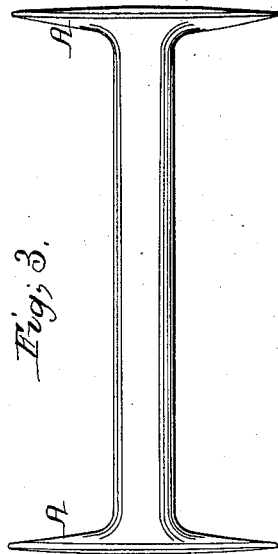
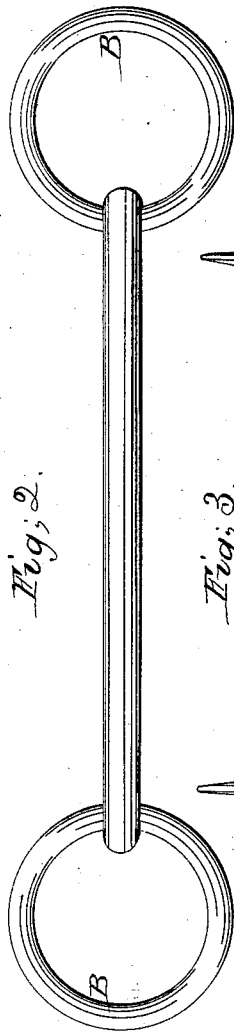


D. S. Balch,

Bridle Bit

N^o 1,299.

Patented Aug. 23, 1839.



UNITED STATES PATENT OFFICE.

DAN SHAW BALCH, OF BRADFORD, VERMONT.

BRIDLE-BIT FOR HORSES, &c.

Specification of Letters Patent No. 1,299, dated August 23, 1839.

To all whom it may concern:

Be it known that I, DAN SHAW BALCH, of
Bradford, in the county of Orange and
State of Vermont, have invented a new and
5 useful Improvement in Bridle-Bits for Ani-
mals, which is described as follows, refer-
ence being had to the annexed drawings of
the same, making part of this specification.

The nature of my invention consists in
10 placing a revolving iron spool with deep col-
lars upon the ordinary bit for reducing fric-
tion or rubbing against the mouth of the
animal.

To enable others to make my improvement
15 I will proceed to describe its construction.

Figure 1 represents the spool and bit to-
gether. Figs. 2 and 3 represent them de-
tached.

Similar letters refer to similar parts.

20 The revolving iron spool is about five and
a half inches in length and five eighths of
an inch in diameter in the middle. At the
distance of about half an inch from either
extremity the spool begins to expand in di-

ameter until it terminates in a collar (A) 25
at either end of about two and a half inches
in diameter. Through this spool, which is
perforated longitudinally through the cen-
ter, passes a straight iron wire or bit one
quarter of an inch in diameter, on which 30
the spool revolves; and at each extremity of
this wire it is formed into an eye through
which is passed a round ring—one at each
end—to which the reins and head stall are
made fast. The bridle is in other respects 35
made like the common bridle and is applied
in the usual manner.

The invention claimed and desired to be
secured by Letters Patent consists in—

The combination of the wire bit and re- 40
volving spool, constructed as before de-
scribed, in the manner herein set forth for
reducing the friction of the bit against the
animal's mouth—to which it is applied.

DAN SHAW BALCH.

Witnesses:

GEO. WILLIS,
ION KITTREDGE.