

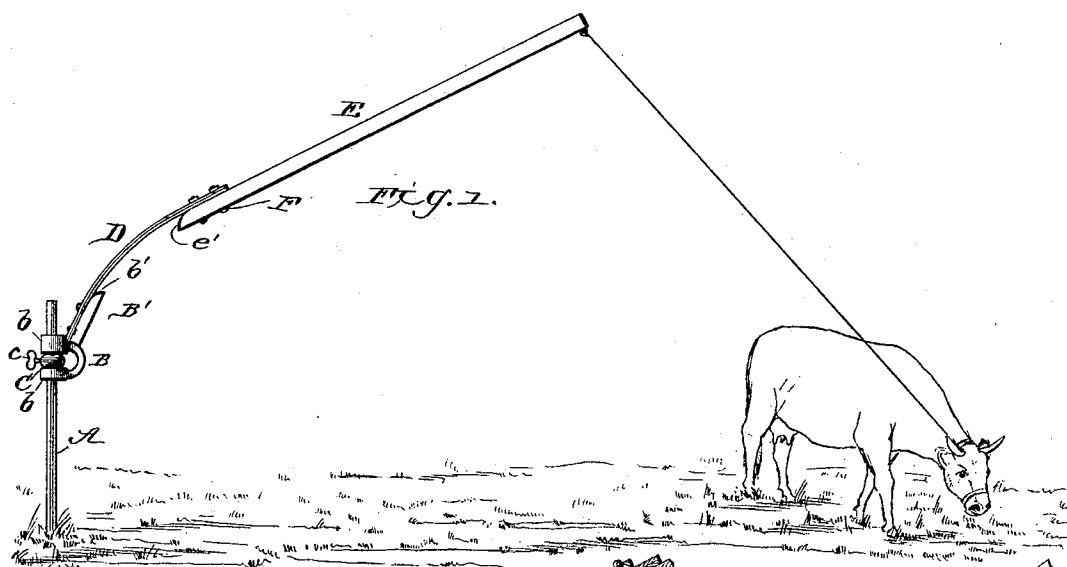
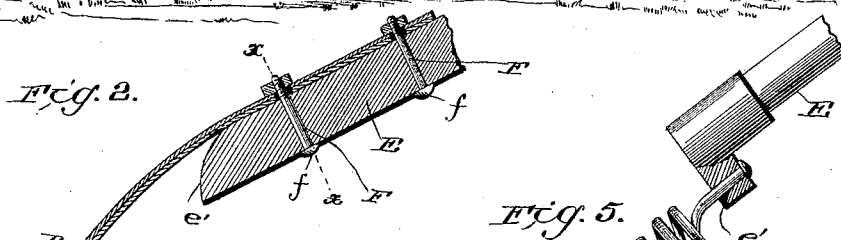
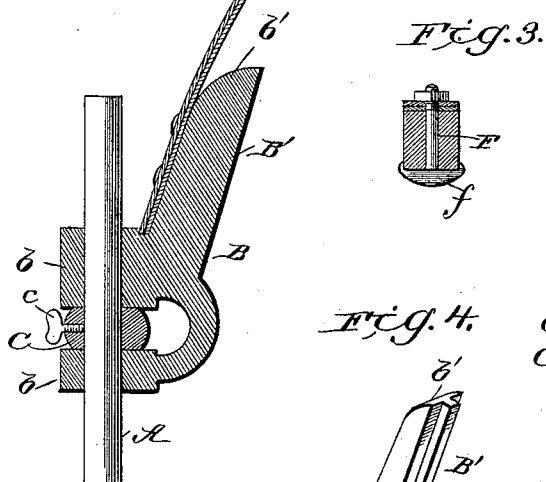
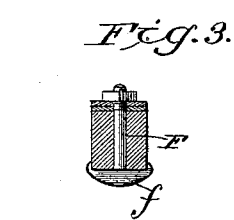
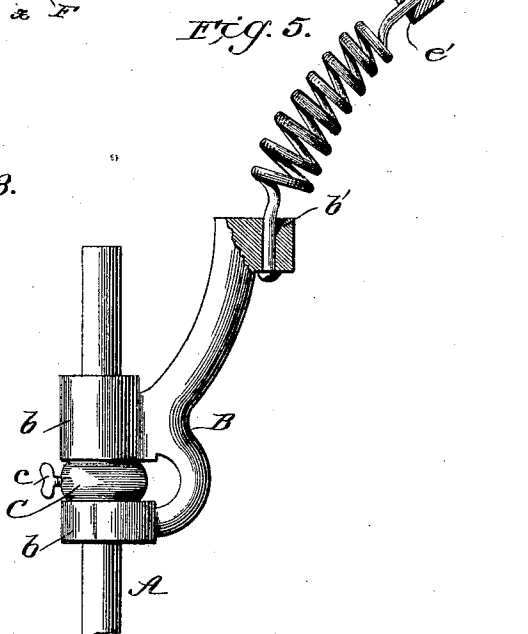
(No Model.)

G. S. SERGEANT.

TETHER.

No. 390,808.

Patented Oct. 9, 1888.



WITNESSES:
Fred G. Dieterich
P.B. Turpin

INVENTOR,
Geo. S. Sergeant.
BY *Munn & Co*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

GEORGE S. SERGEANT, OF GREENSBOROUGH, NORTH CAROLINA.

TETHER.

SPECIFICATION forming part of Letters Patent No. 390,808, dated October 9, 1888.

Application filed July 10, 1888. Serial No. 270,599. (No model.)

To all whom it may concern:

Be it known that I, GEORGE S. SERGEANT, of Greensborough, in the county of Guilford and State of North Carolina, have invented a new and useful Improvement in Tethers, of which the following is a specification.

My invention is an improvement in tethers; and it comprises a standard or stake, a bracket or carrier supported thereon so that it may rotate on or be adjusted along said stake, a pole, and a spring-connection which supports the pole and serves as the connection between the said pole and the bracket or carrier of said pole.

The invention consists in the novel constructions and combinations of parts, as will be hereinafter described and claimed.

In the drawings, Figure 1 shows the invention as in use. Fig. 2 is a detail sectional elevation of a part of the device. Fig. 3 is a sectional view on about line *xx*, Fig. 2. Fig. 4 is a detail view of the bracket, and Fig. 5 illustrates the construction employed when a coiled spring is used.

The stake or standard A may be of any suitable length, and is, in practice, ordinarily driven in the ground, as will be understood from Fig. 1. On this stake I fit the bracket or carrier B, which has eyes *bb* formed with openings to receive the stake, so that the bracket may turn on or be adjusted up or down on the stake. These eyes *bb* are rigidly connected together by the body of the bracket, which body unites the said eyes at one side; but the said eyes are arranged sufficiently apart to form a recess or opening fitted to receive the collar C, which is provided with a clamp-screw, *c*, and serves to secure the bracket in any suitable vertical adjustment on the stake, the collar fitting between the eyes and serving to prevent any movement of the bracket up or down, and yet forming no obstruction to the turning of the bracket on the stake, as desired.

By arranging the collar between two eyes of the bracket a single collar suffices to secure the bracket from movement either up or down on the stake, and when the collar is released by loosening the clamp-screw it may be adjusted up or down by the corresponding movement of the bracket. The bracket also has an arm, B', which in the construction shown projects outward and upward at an incline and serves to receive the spring D. By preference this

arm B' has a curved or inclined bearing-surface, *b'*, which serves to ease or make gradual the bending of the spring, and thus avoid the abrupt bending of same and the consequent danger of breaking resulting from such abrupt bending.

The spring D may be formed of a flat plate, or, preferably, a plurality of such plates fitted face to face, as shown in Figs. 1 and 2, the said plates being secured at one end to the bracket or carrier and at their outer ends to the pole E. The pole E also has a rounded or inclined bearing-surface, *e'*, similar to the surface *b'*, and for a similar purpose—namely, to prevent the abrupt bending of the spring. In the construction shown in Fig. 5 the said surface *e'* is formed on a socket-piece secured to the pole.

It will be understood that where desired a coil-spring, as shown in Fig. 5, may be used, such spring being provided at its ends with stems or shanks fitted and secured in suitable sockets or openings provided on the carrier or bracket and on the pole. As stated above, the flat plate or plates may be preferred.

The bolts F, for securing the springs to the pole, have their heads *f* elongated laterally and formed to brace the pole, to prevent any splitting of same.

In use the tethering-rope may be secured to the outer end of the pole, as will be understood from Fig. 1.

The construction is simple, inexpensive, can be easily adjusted for use, and possesses no parts likely to be easily broken or to get out of order.

Having thus described my invention, what I claim as new is—

1. An improved tether comprising the pole, the bracket or carrier, and the spring extended between and fixed to said bracket and pole, a bearing being provided for the spring adjacent its end or ends, such bearing being rounded or inclined in the direction of length of the spring, substantially as set forth.

2. In a tether, the combination of the bracket or carrier having a rounded or inclined surface, *b*, the pole having rounded or inclined surface *e'*, and the spring extended between and fixed to both the bracket and the pole, substantially as set forth.

3. The herein-described improved tether,

comprising the stake, the bracket journaled and revolving on the said stake, a spring having one end fixed rigidly to the bracket, whereby it may support the pole on its opposite or outer end, and whereby the said spring may turn or move around the stake, and the pole secured to and supported on the outer end of the spring, substantially as set forth.

4. The improvement in tethers consisting of the stake, the bracket provided with eyes perforated to fit on the stake and separated from each other, the collar fitted and secured on the stake between the eyes of the bracket, such collar being formed to fit snugly between the eyes of the bracket, whereby to prevent said bracket from moving up or down on the stake, the pole, and connections, substantially as set forth.

5. The improved tether comprising the bracket, a spring consisting of a number of flat spring-plate strips held at one end to the bracket, and the pole held at its inner end to

and supported on the outer ends of the said strips, substantially as set forth.

6. The improved tether herein described, consisting of the stake, the bracket having eyes separated to receive the fastening-collar between them and perforated for the passage of the stake, such bracket having a lateral arm curved on its upper side, the fastening-collar, the pole having its inner end curved on its upper side, and the spring secured to said bracket and pole, substantially as set forth.

7. As an improvement in tethers, the bracket having bearings or openings by which it may be journaled on the stake, and provided with a lateral arm, the spring fixed at its inner end rigidly to the said lateral arm, and the pole supported on the outer end of the spring, all substantially as set forth.

GEORGE S. SERGEANT.

Witnesses:

P. B. TURPIN,
SOLON C. KEMON.