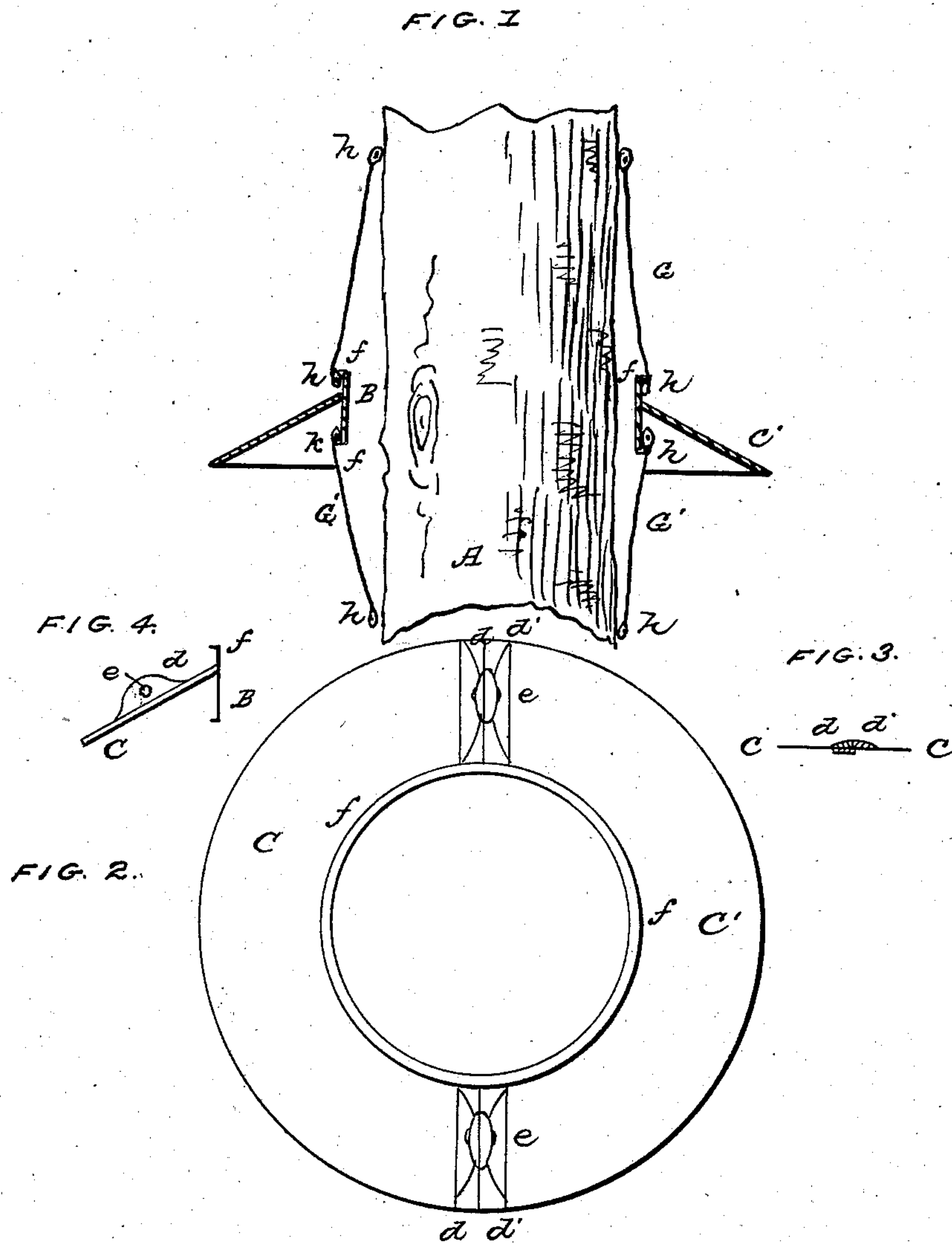


H. L. ORDWAY.

Tree Protector.

No. 39,672.

Patented Aug. 25, 1863.



WITNESSES:

A. D. Wait
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HENRY L. ORDWAY, OF IPSWICH, MASSACHUSETTS.

IMPROVEMENT IN TREE-PROTECTORS.

Specification forming part of Letters Patent No. 39,672, dated August 25, 1863.

To all whom it may concern:

Be it known that I, HENRY L. ORDWAY, of Ipswich, in the county of Essex and State of Massachusetts, have invented a new and useful Improvement in Tree-Protectors; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a central vertical section through the protector attached to a tree, the latter being represented by the dotted lines A. Fig. 2 is a top view of the protector. Fig. 3 is an end view of the fastening by which the two parts of the protector are united, and Fig. 4 is a side view of the same.

Like parts are indicated by the same letters in all the drawings.

To enable others skilled in the art to make and use my improvement, I will now proceed to describe its construction and operation.

The nature of my invention consists in providing a conical disk, C, with a ring or collar, B, so as to form with the same an acute angle, x , in attempting to pass which from the ring to the disk the grubs (especially those that produce the "canker-worm") will invariably lose their hold and fall to the ground.

I propose to make my protector of tin, crockery, or other suitable material whose surface can be rendered sufficiently smooth.

The protector may be of various sizes, according to the size of the tree to which it is to be applied, and its general shape is clearly shown in Figs. 1 and 2.

The conical disk is made in two parts, C and C', as represented in Fig. 2, and these parts or halves are united by means of the cleats d and d' and a screw, e . The edges of these cleats are made to overlap each other, as represented in Fig. 3. If made of tin or other suitable metal, these cleats may be soldered or riveted to the disk. If made of crockery, they can form a solid part of the disk itself.

The disk may be more or less flaring, though I prefer to make it about as shown in Figs. 1 and 4.

To the upper edges of the separate halves C and C' of the disk are soldered or otherwise attached the semicircular rings B and B', as represented in Figs. 1 and 4, so as to form an

acute angle, x . The top and bottom of this ring are provided with lips or flanges f , as seen in Figs. 1 and 4, the object of which is to assist in confining the flexible pipes or bags G G'.

The pipes or bags G and G' may be made of any kind of cloth or other suitable material, their upper and lower edges being provided with hems, through which are inserted strings h , whereby it is obvious that the pipes may be readily attached not only to the ring, but also to the body of a tree, as shown in Fig. 1. It is not, however, absolutely necessary to employ more than one of the pipes or bags, either the top or bottom one alone being sufficient. Two, however, hold the protector more securely and lessen the chance of any insect or grub obtaining a passage up between the instrument and the bark of a tree.

I do not confine myself to the employment of an acute angle, x , of any definite number of degrees, as I find by experiment that an angle somewhat more or less acute than the one represented in the drawings will answer equally well and effectually prevent any canker-worm grub from passing from the ring to the under side of the disk.

As it is only during a certain part of the year that canker-worm grubs ascend the trees, it is obvious that any device whereby the protectors can be readily attached or removed is very desirable; and this device is found in my invention. By simply inserting or removing the two screws e e' , which confine the halves of the disk, the operation of attaching or detaching is quickly performed.

Having thus described the construction and operation of my invention, what I claim, and desire to secure by Letters Patent, is—

1. Providing the disk C with the ring or collar B B', substantially as set forth, and for the purpose described.

2. I do not claim, in a tree-protector, the use of a flexible cloth or bag independently of its combination, but I do claim said cloth or bag in combination with a tree-protector consisting of a disk, C, and ring or collar B B', substantially as and for the purpose described.

HENRY L. ORDWAY.

Witnesses:

A. D. WAIT,

FRANCIS A. WAIT.