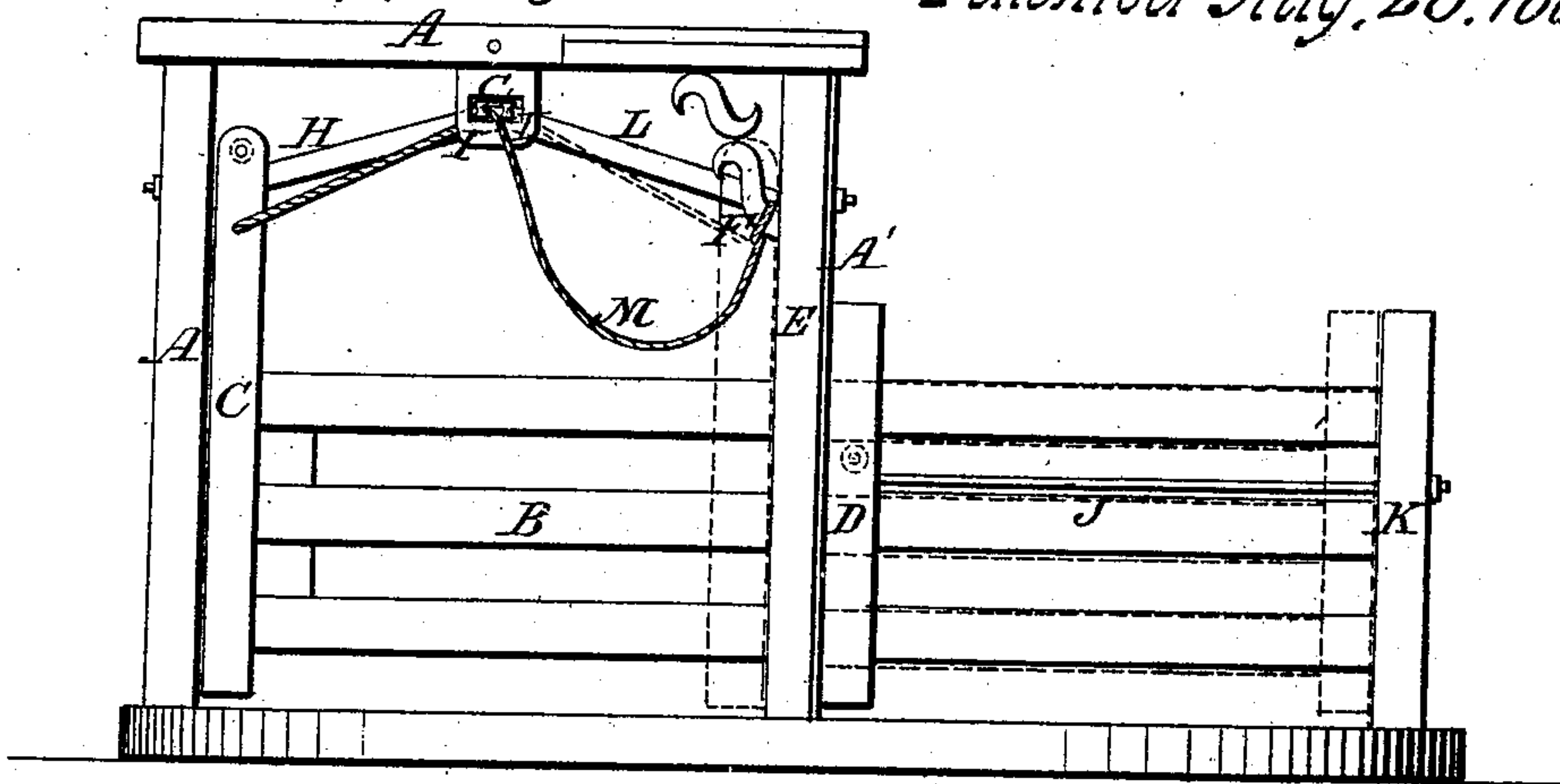


*D. E. Fenn,*

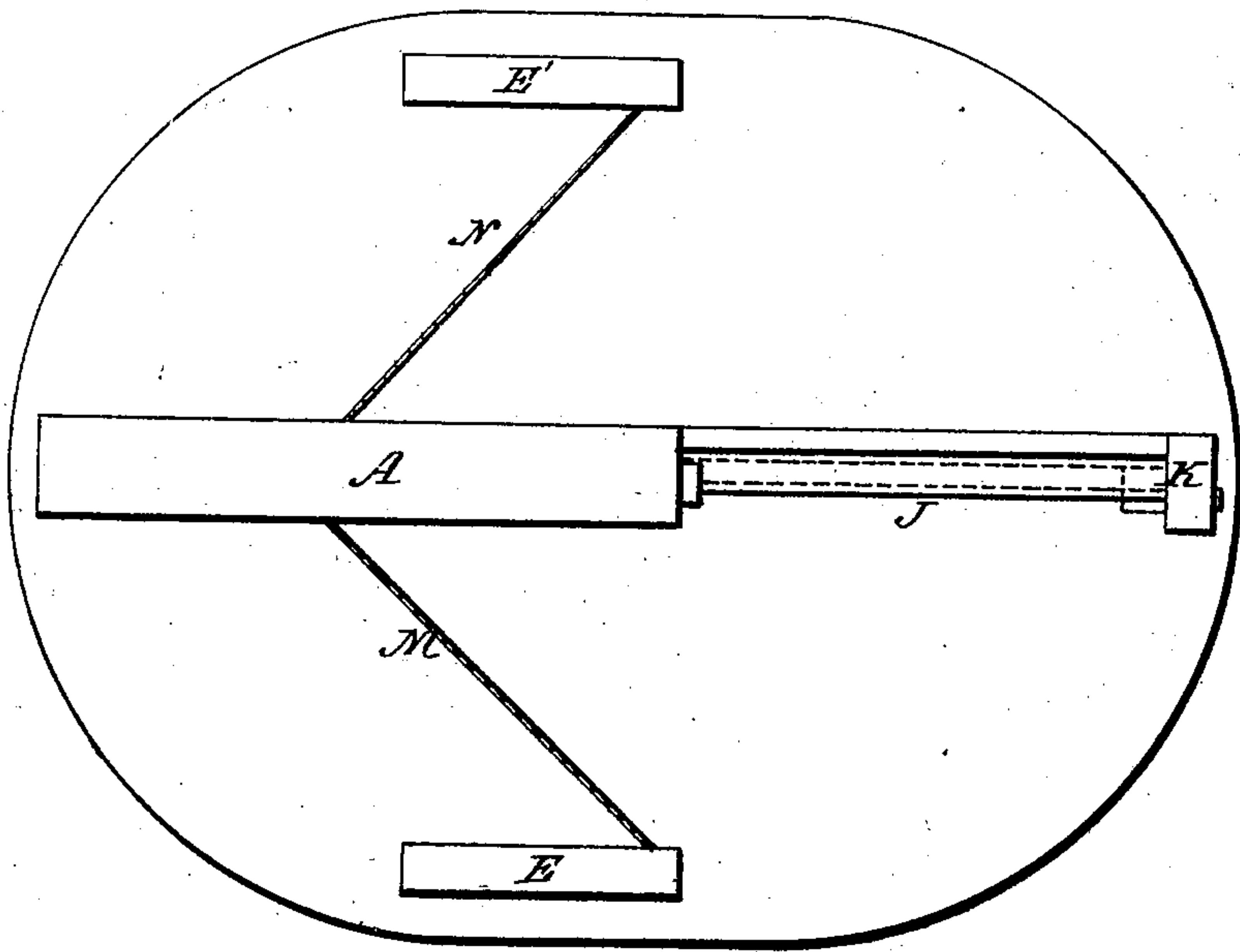
*Sliding Gate.*

*No. 29,774, Fig. 1.*

*Patented Aug. 28. 1860.*



*Fig. 2.*



*Witnesses.*

*W. H. Burdick  
Henry Voith.*

*Inventor.*

*D. E. Fenn.*

# UNITED STATES PATENT OFFICE.

D. E. FENN, OF TALLMADGE, OHIO.

## GATE.

Specification of Letters Patent No. 29,774, dated August 28, 1860.

*To all whom it may concern:*

Be it known that I, D. E. FENN, of Tallmadge, in the county of Summit and State of Ohio, have invented new and useful Improvements in Farm-Gates; and I do hereby declare that the following is a full and complete description of the construction and operation of the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1, is a side view of the gate. Fig. 2, is a top view.

Like letters denote like parts in the two views.

In the figures, A, represents the frame, in which the gate operates; B, the gate, with posts C, D. On both sides of the gate, at a suitable distance from it, are standards E, E'.

To the brackets F, of the standard E, is attached the rope M, that passes between the pulleys I, I, in the arm G, of the frame A, as is shown in Fig. 1. The rope is then attached near the top of the post C, of the gate. To the other side of the post C, is attached a similar rope N, that passes between the pulleys, in an arm like G, on the other side of the frame, and is then secured to the brackets of the standard E'.

There is a pulley near the top of the post C, as indicated, that slides on the inclined planes H, L. In the other post D, is a similar pulley, that slides on the rod I, which is attached to the frame A, and the post K, of the fence. In the post A', of the frame is a slot, through which the gate passes, as it slides back and forth.

The manner in which this gate operates, is

as follows: A person riding up on either side, by means of the rope, which hangs down low enough, pulls the gate up on the inclined plane H, until it begins to descend on the plane L. The weight of the gate will then cause it, to slide down on the plane L, of its own accord, and the gate will be in the position, indicated by the dotted lines. As the person passes through, and pulls the other rope, the gate moves up on the plane L, and slides down on the plane H, by its own momentum, and the gate is shut. The planes on which the post C slides, support that end of the gate, the other end is supported by the rod I, on which the post D slides. The gate being thus raised above the ground, and supported, moves easily on the inclined planes, and rod I, by means of the pulleys.

What I claim as my improvement and desire to secure by Letters Patent, is—

The arrangement of the inclined planes H, L, extending across the open space between the posts of the frame A, A', the gate C, post K, rod J, arms G, and ropes M, N, as herein shown and described, so that the front end of the gate will rise and fall upon the inclined planes H, L, while the rear end of the gate will ride upon the horizontal rod I, and so that by pulling upon either of the ropes the gate will be opened or closed, being moved partly by the force applied and partly by its own gravity in descending the inclined planes all as herein specified.

D. E. FENN.

Witnesses:

W. H. BURRIDGE,  
HENRY VOTH.