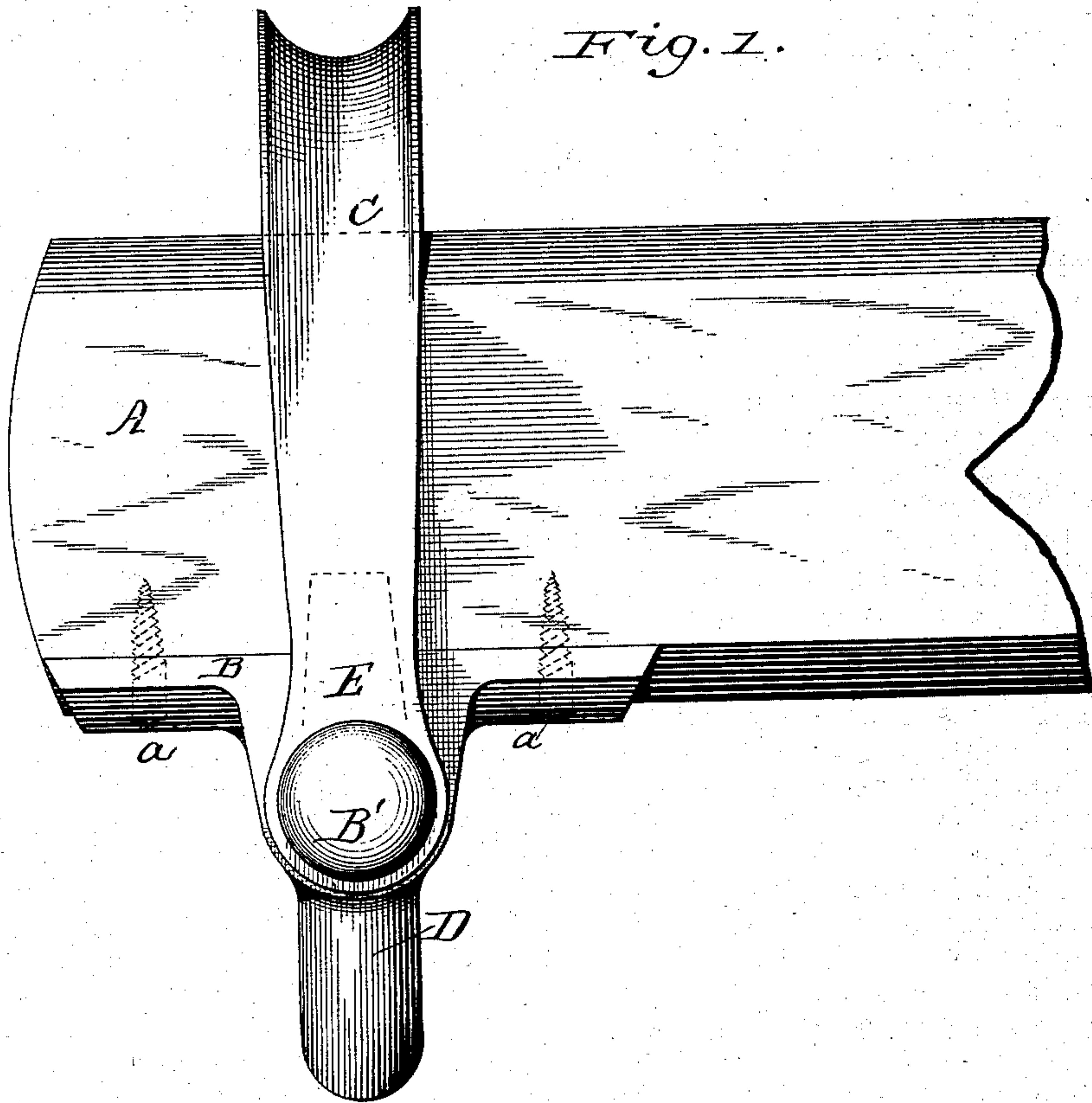


(Model.)

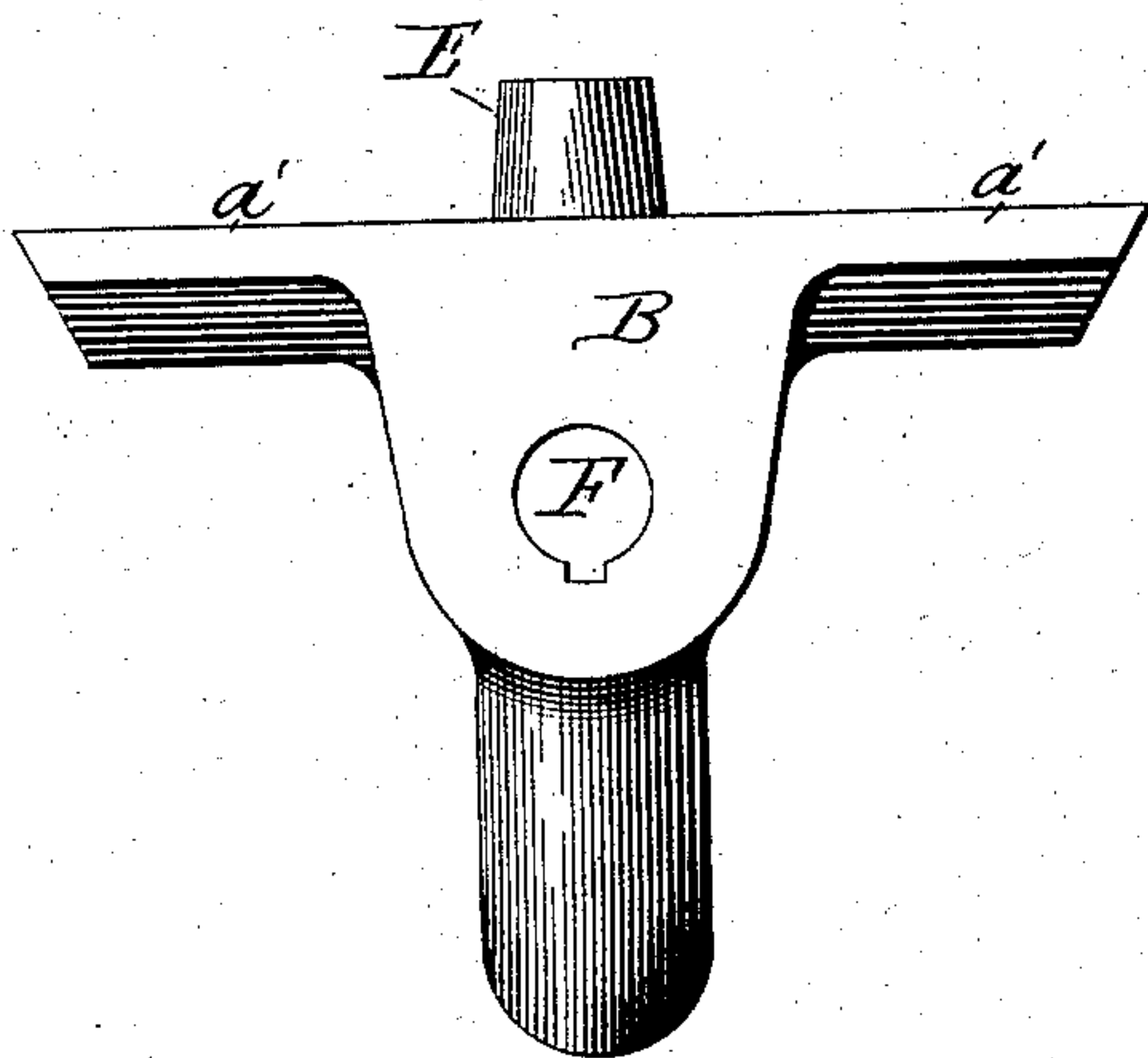
T. FEYEN.  
DOUBLE TREE PROTECTOR.

No. 317,105.

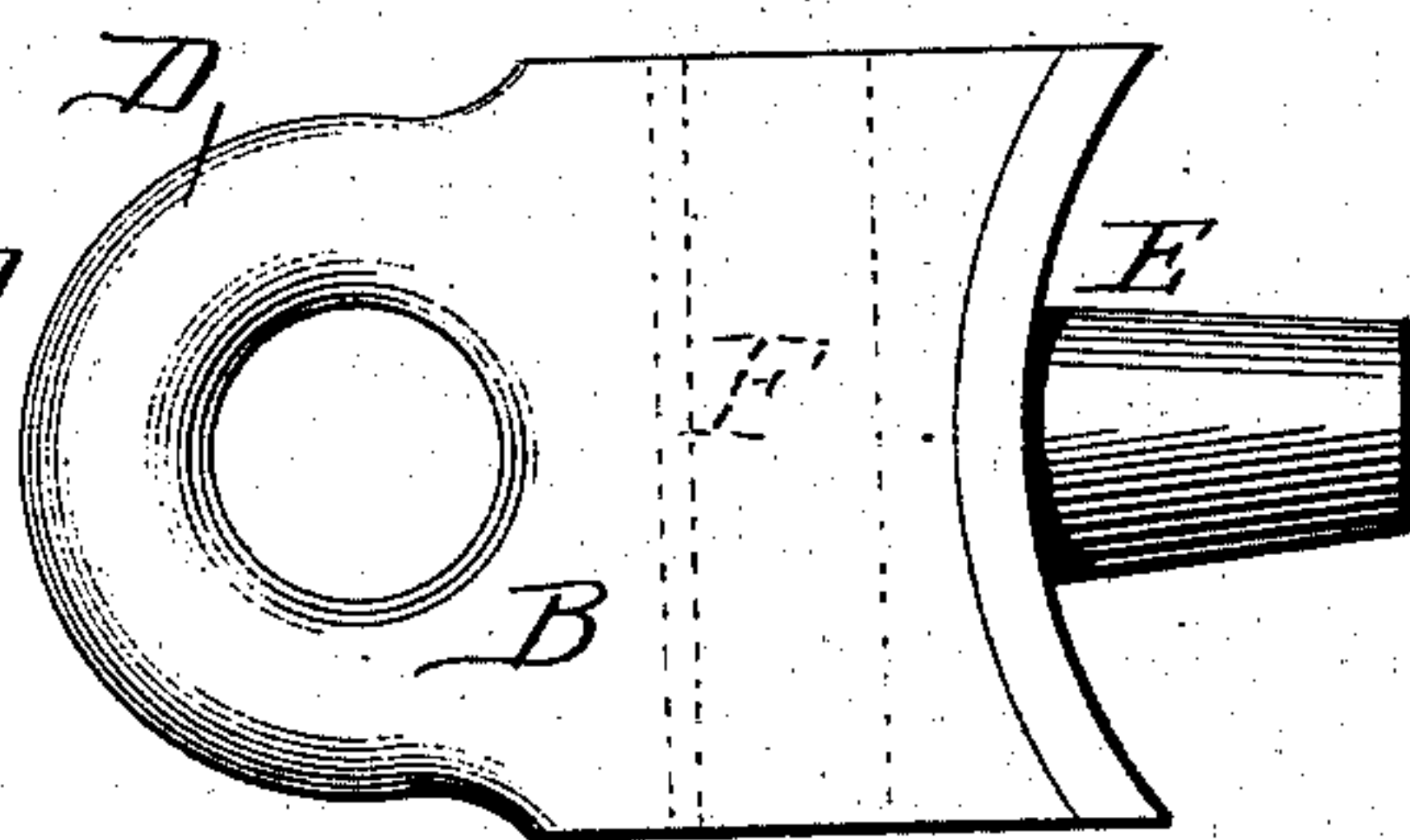
Patented May 5, 1885.



*Fig. 2.*



*Fig. 3.*



Witnesses:

Henry Michel  
Christian Krakow

Inventor:  
Thomas Feyen



# UNITED STATES PATENT OFFICE.

THOMAS FEYEN, OF DUBUQUE, IOWA.

## DOUBLE-TREE PROTECTOR.

SPECIFICATION forming part of Letters Patent No. 317,105, dated May 5, 1885.

Application filed April 30, 1884. (Model.)

*To all whom it may concern:*

Be it known that I, THOMAS FEYEN, of the city and county of Dubuque, and State of Iowa, have invented a new and useful Improvement in Double-Tree Protectors; and I hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings and the letters of reference marked thereon.

My invention has for its object to provide a practical, economical, and efficient mode of fastening the single-trees to the double-tree by means of an ordinary clevis-pin without boring through or in any manner weakening the double-tree; and, further, my invention furnishes convenient eye-holes to which the stay-chains of the wagon may be attached.

For the better understanding of my invention, I call attention to the accompanying drawings, in which—

Figure 1 represents one end of a double-tree with my protector and an ordinary clevis, C, and pin B' attached. Fig. 2 represents my protector detached. Fig. 3 represents a side view of my protector, showing ring to which the stay-chains of the vehicle are attached.

Like letters denote corresponding parts in all of said figures.

B represents my protector, (which may be made of wrought or malleable iron,) consisting of the main body with arms *a' a'*, for the purpose of attaching it to the double-tree. There is also cast upon it a projection, E, which enters the evener or double-tree for the purpose of taking the strain off of the screws in case of side pull. Through the center of the protector is a hole, through which a clevis-pin passes to pivot the clevis to the double-tree, and at the back of the protector I cast a ring, to which the stay-chains are attached, instead of attaching them in the ordinary way.

A represents one end of an ordinary double-tree. Upon the side of the double-tree, near the end opposite to which the single-trees are attached, I fasten said protector B by the lug E and screws *a a*. I then attach to this an ordinary clevis, C, with pin B' through the hole F in the protector B. To the ring D of the protector I attach the ordinary stay-chains, connecting with the axle of the vehicle.

By the use of my protector it will be readily seen that the double-tree is not weakened by boring holes through it in order to fasten the clevis and the single-trees to the double-tree, and all the strength of the double-tree is preserved. It will also be observed that the ring D furnishes a convenient, safe, and durable eye-hole to which the stay-chains of the double-tree can be attached, and also thereby doing away with the necessity of boring holes through the double-tree for the purpose of putting in an eyebolt for the stay-chain.

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

1. A double-tree protector having the lug E, arms *a' a'*, and hole F, for attaching clevis-pin, all placed upon a double-tree and operated substantially as described, and for the purposes shown.

2. In a double-tree protector, the combination of the plate B, having lug E, arms *a' a'*, clevis-pin hole F, and eye-hole D, to which stay-chains are attached, substantially as described, and for the purposes set forth.

In testimony whereof I have hereto affixed my signature in presence of two witnesses.

THOMAS FEYEN.

Witnesses:

HENRY MICHEL,  
CHRISTIAN KRAKOW.