

(No Model.)

H. COOPER.  
BICYCLE FRAME.

No. 589,205.

Patented Aug. 31, 1897.

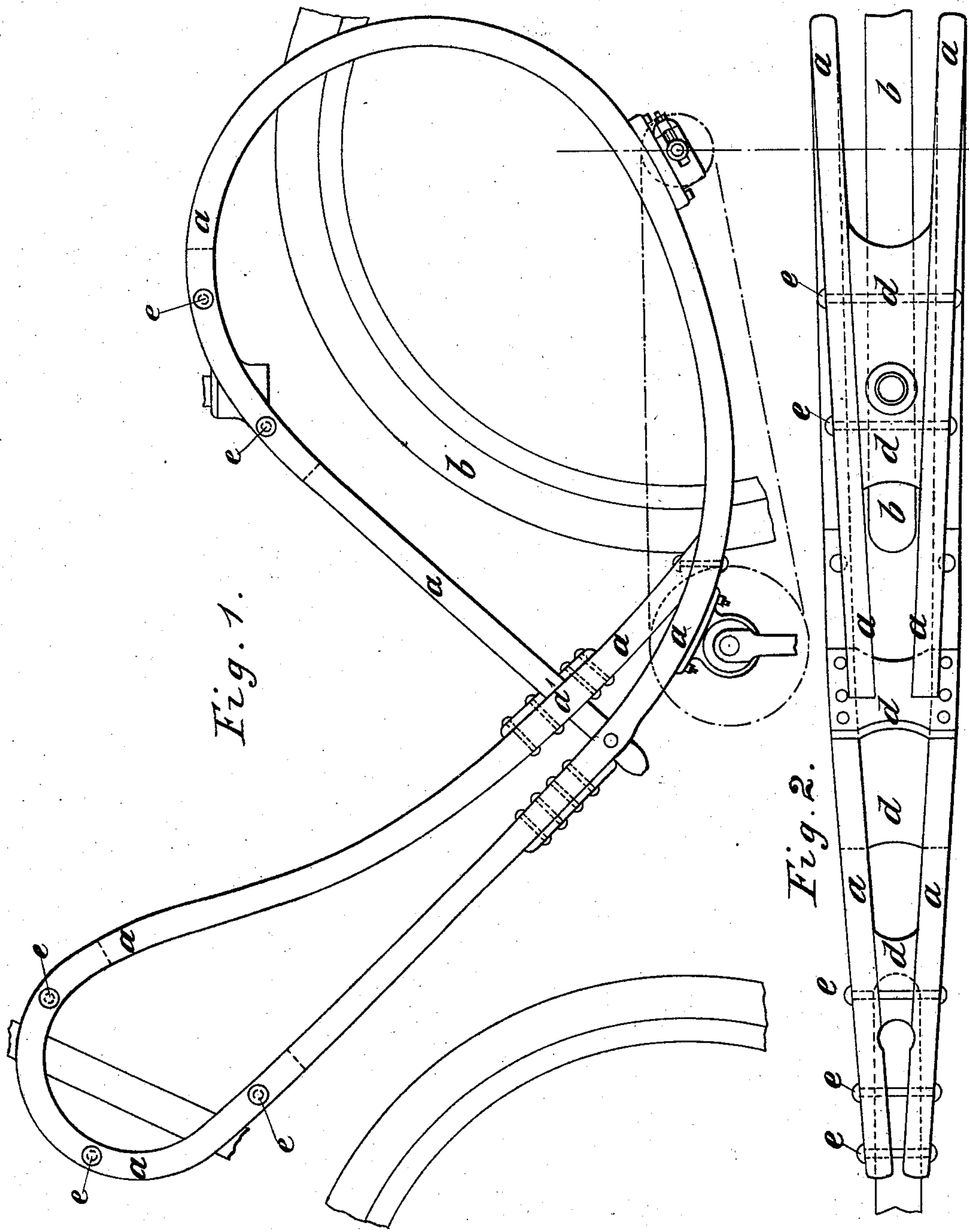


Fig. 1.

Fig. 2.

Witnesses

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# UNITED STATES PATENT OFFICE.

HENRY COOPER, OF BRISTOL, ENGLAND.

## BICYCLE-FRAME.

SPECIFICATION forming part of Letters Patent No. 589,205, dated August 31, 1897.

Application filed January 8, 1897. Serial No. 618,465. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY COOPER, a subject of the Queen of Great Britain and Ireland, residing at Bristol, England, have invented a certain new and useful Frame for Bicycles, of which the following is a specification.

The object of my invention is to construct a bicycle-frame combining lightness with a proper degree of strength and resilience. To this end the frame is constructed of a pair of members curved to a suitable shape and secured together at suitable points. The material of which the members are made is preferably wood or steel, but other suitable material possessing the necessary qualities may be employed. Each member is shaped to form a pair of bows of different size. The larger bow is at the rear and the smaller at the front. Each member crosses itself in advance of the rear wheel and each is secured to itself.

Referring to the drawings which form a part of this specification, Figure 1 is a side view of the bicycle-frame which constitutes my invention. Fig. 2 is a plan.

The frame consists of a pair of members *a*, shaped as shown—that is to say, the members are shaped to form a pair of bows or loops of different size, the larger of which is at back and the smaller at front. Each member crosses itself at *a'* in advance of the rear wheel *b* and is secured to itself by bolts, screws, pins, or other suitable means. The members, which are placed alongside each

other, are held apart and tied by the spacing-pieces *d*. They are also connected together by bolts *e*, situated at suitable points.

The frame illustrated in the accompanying drawings is shown as made of wood. The frame may, however, be made of steel, tubular or otherwise, or it may be made of other suitable metal or material possessing the requisite qualities aforesaid.

American rock-elm and British ash are kinds of wood well adapted to constitute the frame. The wood is bent by the usual methods of bending—that is to say, by steaming or other process.

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

1. In a bicycle-frame, a pair of members placed alongside and secured to each other, each member composed of a single piece bent upon itself to form two loops, substantially as described.

2. In a bicycle-frame, a pair of members placed alongside and secured to each other, each member composed of a single piece bent upon itself to form two loops, the ends of each member crossing each other and secured to that member, substantially as described.

In witness whereof I have hereunto set my hand in the presence of two witnesses.

HENRY COOPER.

Witnesses:

NICHOLAS WATTS,  
WILLIAM HENRY DAVIES.