

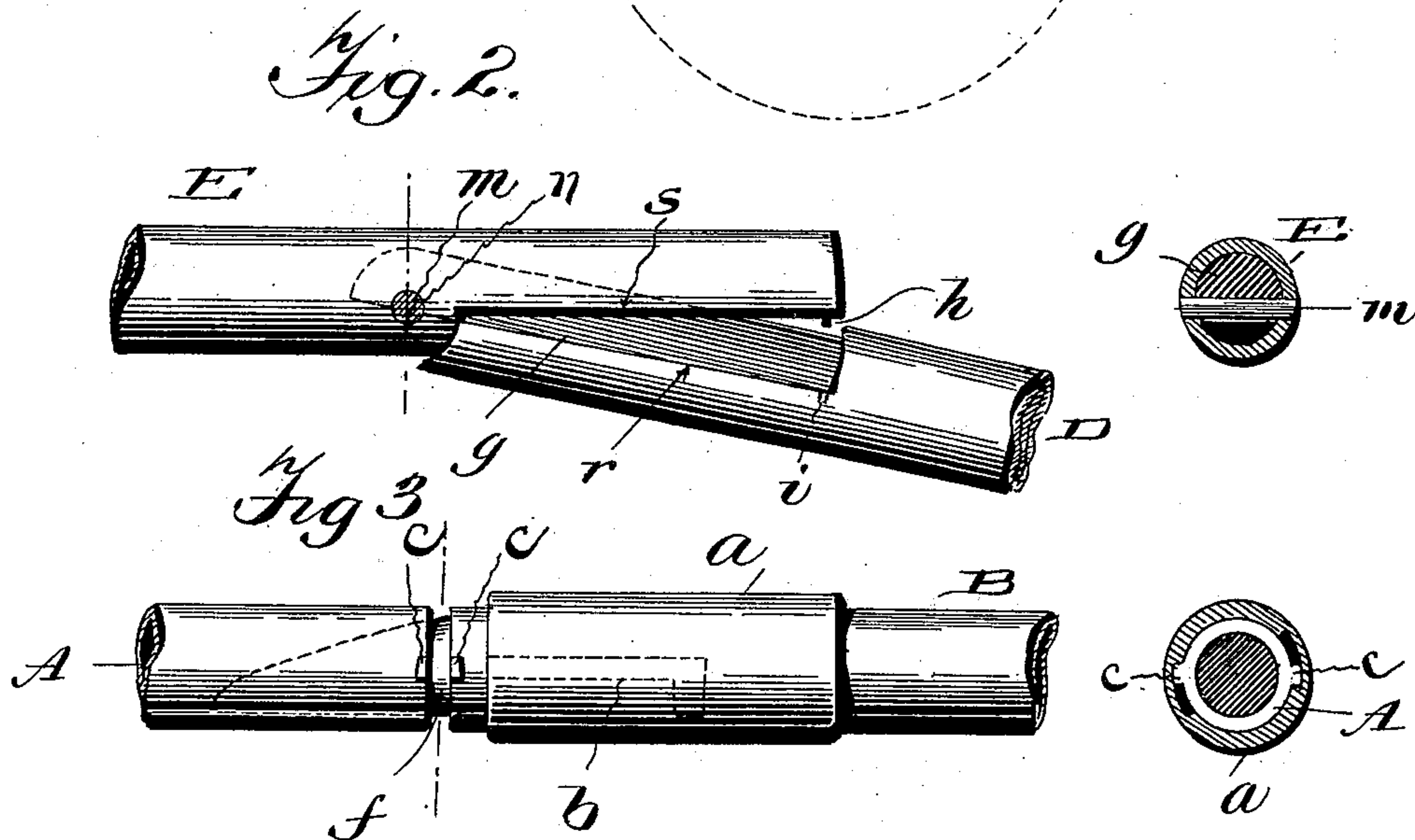
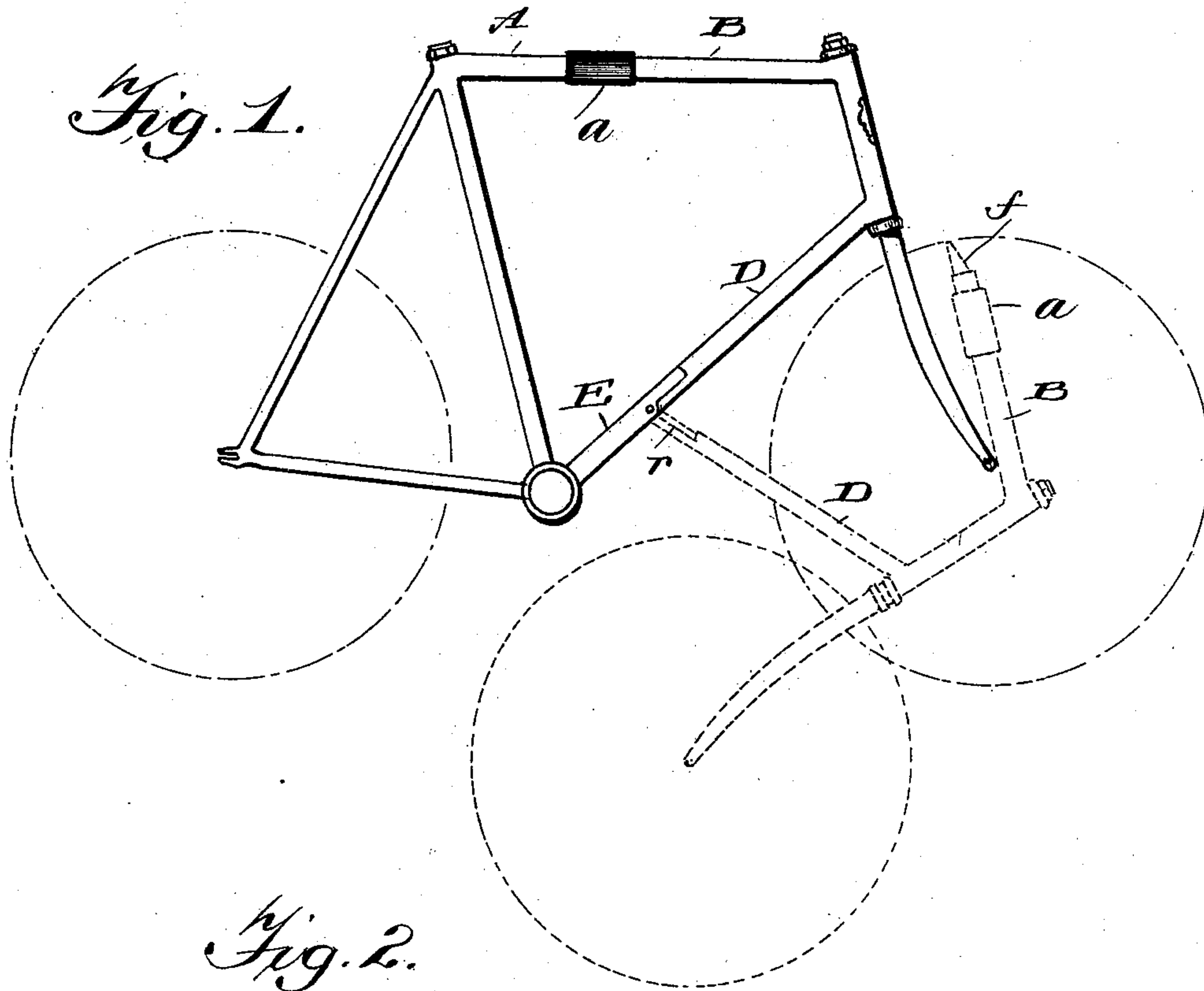
No. 607,325.

Patented July 12, 1898.

B. F. BARNES.
SEPARABLE FRAME FOR BICYCLES.

(Application filed Aug. 19, 1897.)

(No Model.)



Witnesses:
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UNITED STATES PATENT OFFICE.

BURR F. BARNES, OF CIRCLEVILLE, OHIO.

SEPARABLE FRAME FOR BICYCLES.

SPECIFICATION forming part of Letters Patent No. 607,325, dated July 12, 1898.

Application filed August 19, 1897. Serial No. 648,824. (No model.)

To all whom it may concern:

Be it known that I, BURR F. BARNES, a citizen of the United States, residing at Circleville, in the county of Pickaway and State of Ohio, have invented certain new and useful Improvements in Separable Frames for Bicycles; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in bicycles, and especially to a separable frame for the safety-bicycle, thereby rendering it possible to reduce the space required for packing the frame when it is desired to transport the wheel.

More particularly the invention resides in the construction of the frame which is capable of being spliced, and the parts of the tubing securely held together by a suitable locking key or lug engaging in a slot in a collar held over the meeting ends of the tubing of the frame.

To these ends and to such others as the invention may pertain the same consists, further, in the novel construction, combination, and adaptation of the parts, as will be hereinafter more fully described and then specifically defined in the appended claims.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this application, and in which—

Figure 1 is a side elevation of a frame of a bicycle constructed in accordance with my invention. Fig. 2 is an enlarged detail view of the lower jointed tubing. Fig. 3 is an enlarged detail view of the coupling on the upper or horizontal tubing.

Reference now being had to the details of the drawings by letter, A designates one section of the horizontal tubing of the frame, and B the second section, and *a* is a union or coupling-collar. The meeting ends of the said sections A and B are provided with in-

tegral lugs C C, over which the collar *a* is slid, the lugs being guided in the slot *b*, which is deflected at a right angle at its inner end and has its walls slightly inwardly tapered or wedge-shaped. This angled portion of the slot is provided to receive the lugs after the collar has been pushed over the meeting ends of the said tubes and a part revolution imparted to the collar, the lugs being forced in the angled end of the slot and securely held in place.

The lower portion of the frame leading to the head of the frame is made up of two pieces of tubing D and E, each end of which pieces is recessed away a suitable distance from their ends, forming the flat contacting surfaces *r* and *s*, with the flat end of the tube E designed to rest against the shouldered portion of the tubing D. Located within the tubing E is a pin *m*, over which the notched end of the filling *g* in tube D is designed to engage, as shown in Fig. 2 of the drawings. Secured to the flattened surface of the tubing, on diametrically opposite sides thereof, is a pin *h*, which is designed to be seated in a notch *i* in the tube D when the tubes are held interlocked and in a horizontal relation.

In order to hold the tubes A and B together more securely and make the connection more rigid, it is my purpose to insert a filling *f* in the tubes, one end being securely fastened to the tube B, while the other end will be free to pass within the bore of the tube A, as illustrated in the drawings.

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

1. In a separable frame for a bicycle, the tubes D and E, a filling in one tube having a notch near its free end, a pin mounted in the end of the other tube on which said notched end is designed to engage, combined with the horizontal tube-sections and means for holding same together, substantially as shown and described.

2. In a separable frame for a bicycle, the combination with the hollow tubes D and E, the filling in tube D and provided with a notch *n*, the pin *m* mounted in the tube E, and designed to be engaged by the said notched por-

tion in tube D, the pin *h* and recess *i* to receive the same, of the tubes A and B, the filling *f* in tube B, lugs C on diametrically opposite edges of the ends of the said tubes A and
5 B, and the slotted collar *a* adapted to fit over the said ends and lock the ends together, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

BURR F. BARNES.

Witnesses:

IRA GULICK,

WILLIAM H. ALEXANDER.