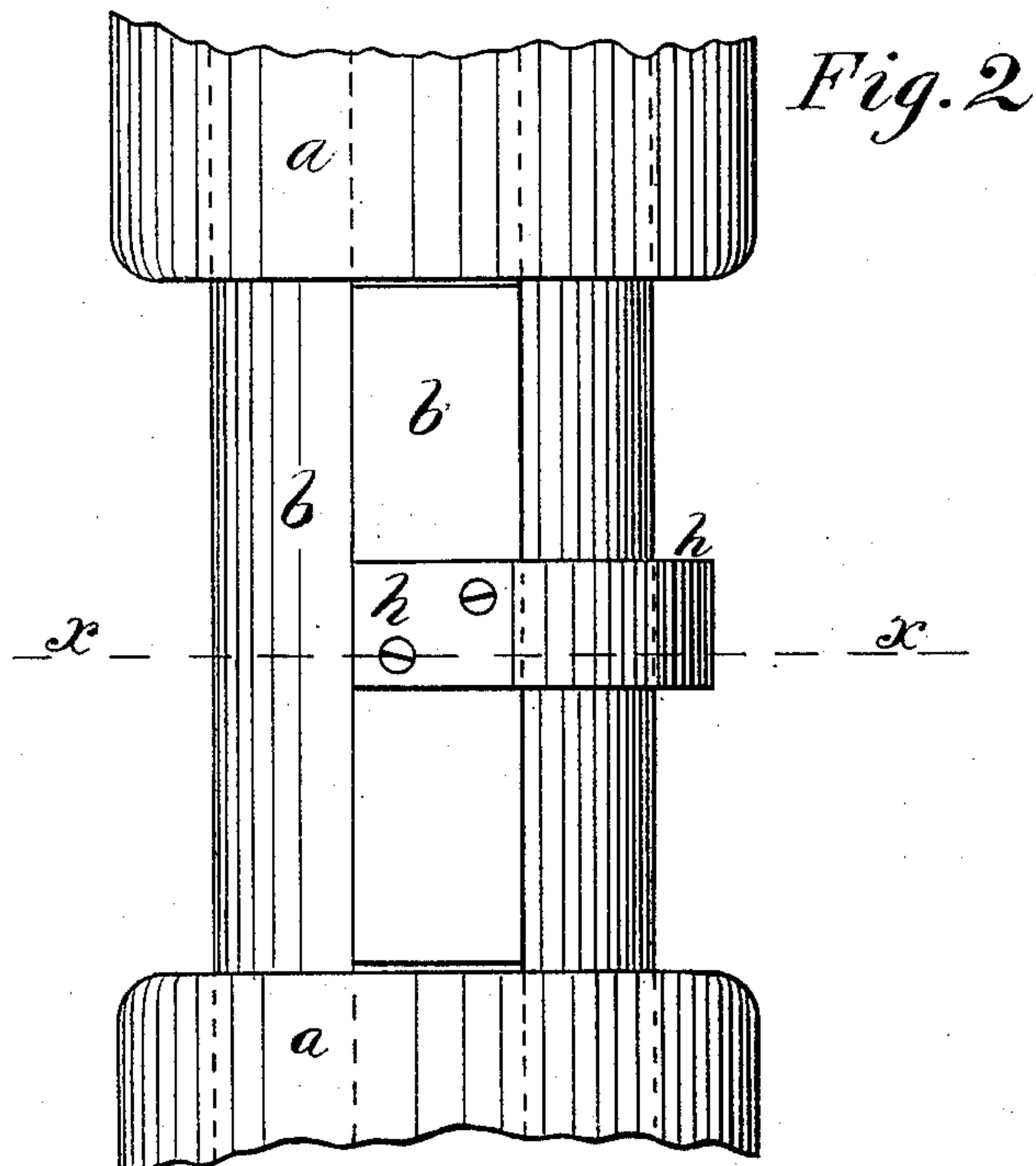
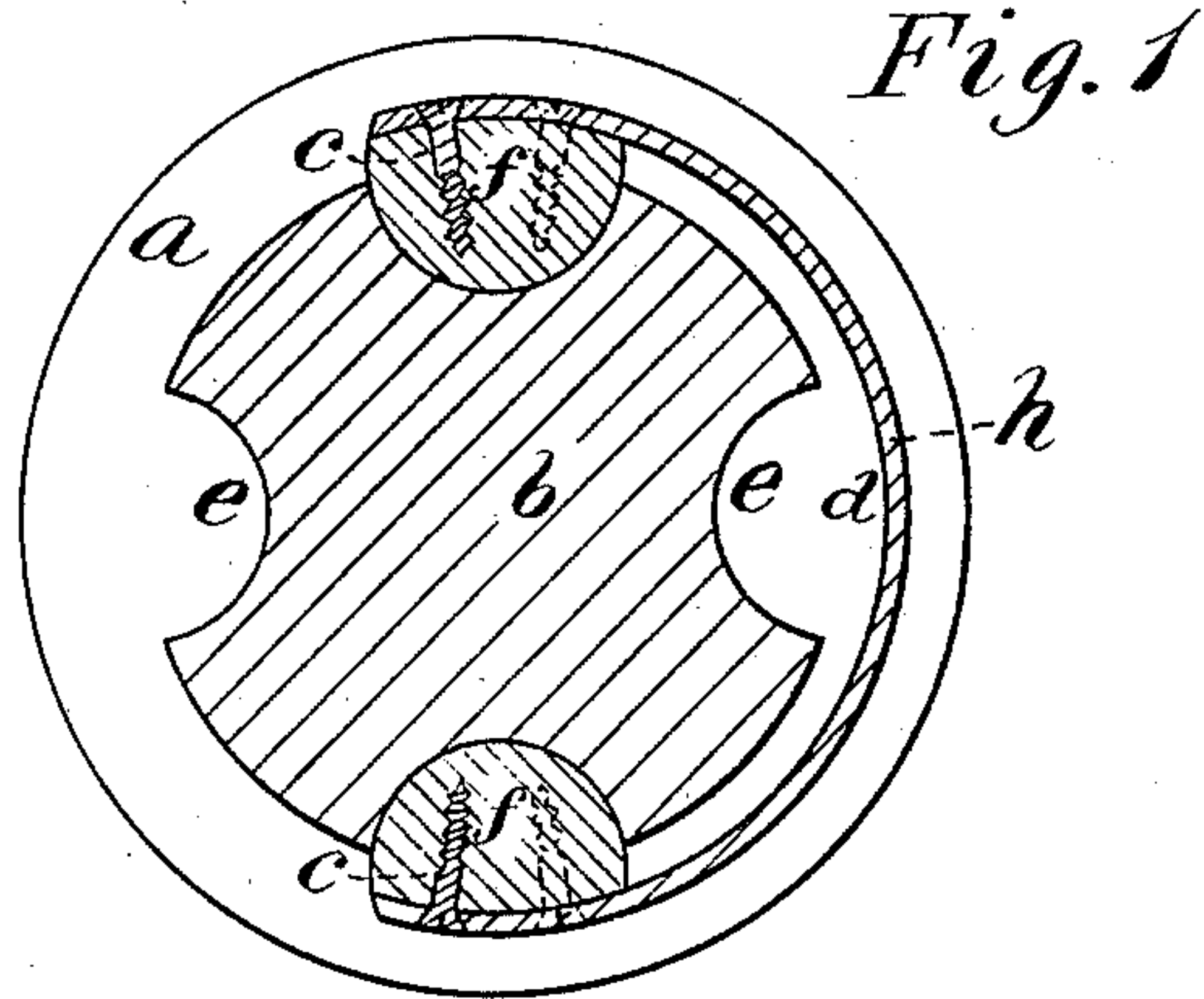


(No Model.)

P. ECKEL.
ROLLER COUPLING DEVICE.

No. 304,920.

Patented Sept. 9, 1884.



Witnesses

J. G. Tallman

M. D. Cornwall

Inventor

Peter Eckel

UNITED STATES PATENT OFFICE.

PETER ECKEL, OF SYRACUSE, NEW YORK.

ROLLER-COUPLING DEVICE.

SPECIFICATION forming part of Letters Patent No. 304,920, dated September 9, 1884.

Application filed January 14, 1884. (No model.)

To all whom it may concern:

Be it known that I, PETER ECKEL, of Syracuse, Onondaga county, State of New York, have invented a new and useful Improvement in Couplings of Rollers for Rolling Metals in Trains, of which the following is a specification.

My invention relates to securing the sleeves used to unite the roller-journals and the spindles that extend from one journal to the other in line, so as to be quickly attached and detached, and to securely fasten and hold them in place when in use. I attain these objects by the device illustrated in the accompanying drawings, in which—

Figure 1 is a vertical section through the line *x x*, Fig. 2; Fig. 2, a plan of the spindle *b* with sections of sleeves *a* thereon.

The letters of reference are the same for like parts on both figures.

The sleeves *a* are like those in common use, and are made to surround the journals of the rollers and spindles *b*, and have projections *e* on the inner surface, in the usual way, to fit into depressions on the journals and spindles *b*, which are formed alike in their cross-section. (See Fig. 1.) The spindle *b* is made twice the length of the sleeves *a*, so that when they are slipped over the ends of the journals after the spindle has been placed in line with

and between them the journals and spindle are coupled together, all of which is well known and not new. The sleeves thus placed have been held apart in place upon the ends of the journals and spindle by various devices, all of which, so far as I know, were defective and inconvenient. To remedy these defects my device was made. It consists of two pieces of wood or other suitable material, *f*, fitting into opposite depressions in the spindle *b*, and extending from one sleeve to the other when they are slid apart onto the journals in the position shown in Fig. 2. The pieces or blocks *f* are attached to the ends of a curved spring, *h*, bent around near the spindle, as seen in the drawings. This holds the blocks *f* securely in place, and admits their attachment or detachment with facility, and securely guards against the accidents to which the usual attachments are liable.

Having thus fully described my improvement in coupling rollers, I claim—

The combination of blocks *f f* and spring *h*, for securing and holding the sleeves *a* in place, as and for the purposes specified.

PETER ECKEL.

Witnesses:

WILLIAM A. SWEET,
W. R. CHAMBERLIN.