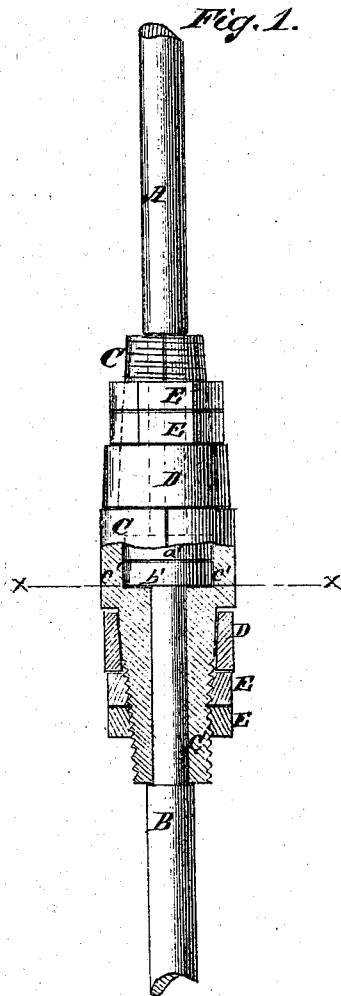


F. Burghardt,

Shaft Coupling

No. 103295.

Patented May 24, 1870.



Witnesses:
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UNITED STATES PATENT OFFICE.

FREDERICK BURGHARDT, OF CURTISVILLE, MASSACHUSETTS.

IMPROVED ADJUSTABLE COUPLING FOR JOURNALS, AXLES, &c.

Specification forming part of Letters Patent No. **103,295**, dated May 24, 1870.

To all whom it may concern:

Be it known that I, FREDERICK BURGHARDT, of Curtisville, in the county of Berkshire and State of Massachusetts, have invented a new and useful Improvement in Adjustable Couplings for Journals, Axles, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

Figure 1 is a side view of a journal, illustrating my improved coupling, partly in section, to show the construction. Fig. 2 is a detail cross-section of the same, taken through the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved coupling, for connecting the parts of car-axles or other revolving journals or shafts, which shall be simple in construction and effective in operation, effectually holding the adjacent ends of the coupled axle, journal, or shaft against longitudinal movement, and at the same time allowing the said parts to each revolve freely and independently of the other; and it consists in the construction and combination of the various parts of the coupling, as hereinafter more fully described.

A and B are the parts of the axle, journal, or shaft to be coupled, upon the adjacent ends of which are formed, or to them are attached, collars *a' b'*, as shown in Fig. 1.

C is the box in which the adjacent ends of the parts of the journals A B work, and which

is made in two parts, the plane of division passing longitudinally through the center of the said box C. In the interior of the central part of the box C is formed a groove, recess, or chamber, *c'*, of such a shape and size as to fit upon the collars *a' b'* of the journals A B, as shown in Figs. 1 and 2. If desired, the said collars may be made upon the box C, and this groove, recess, or chamber in the adjacent ends of the parts of the journal, shaft, or axle. The end parts of the box C are made tapering, as shown in Fig. 1, the outer or end parts of said tapering parts having a screw-thread cut upon them and their inner parts being left plain.

D D are rings or bands, the interior of which is made tapering to fit upon the plain parts of the said tapering ends of the box C.

E E are nuts, the interior of which is made tapering, as shown in Fig. 1, and have screw-threads cut in them to receive and fit upon the screw-thread cut in the tapering ends of the end parts of the box C, as shown in Fig. 1, so that by adjusting the position of the rings or bands D D and nuts E E the box C may be made to fit more or less closely upon the journals, or may be adjusted to compensate for the wear of the said journals.

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

The groove *c'* in a coupling-box, combined with collars *a' b'* of the shafts A B, as and for the purpose described.

FREDERICK BURGHARDT.

Witnesses:

CALVIN B. DAVIS,
HORACE W. HIGLEY.