

No. 630,882.

Patented Aug. 15, 1899.

E. HABER.  
COUPLING.

(Application filed Apr. 29, 1898.)

(No Model.)

Fig. 2.

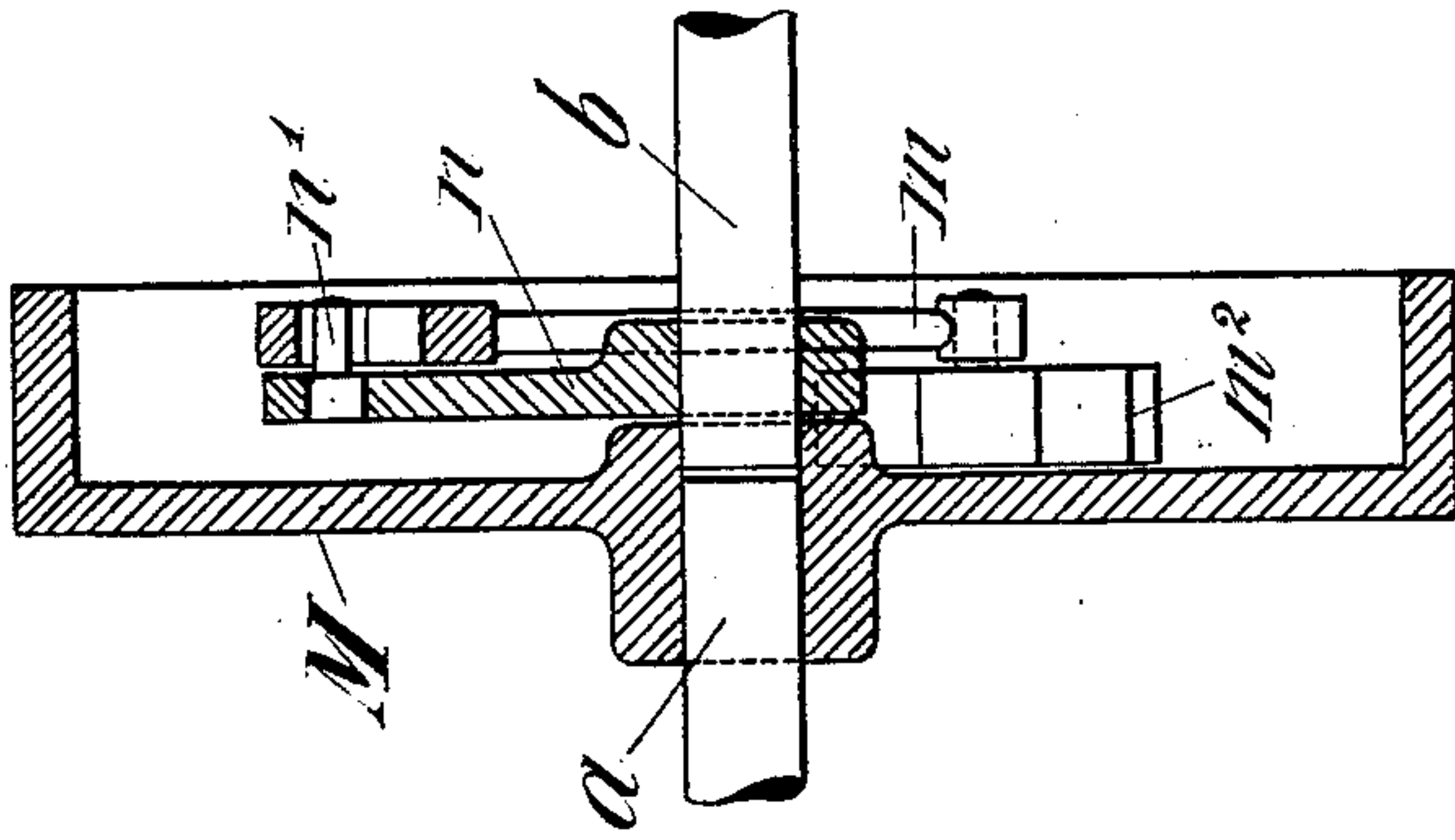
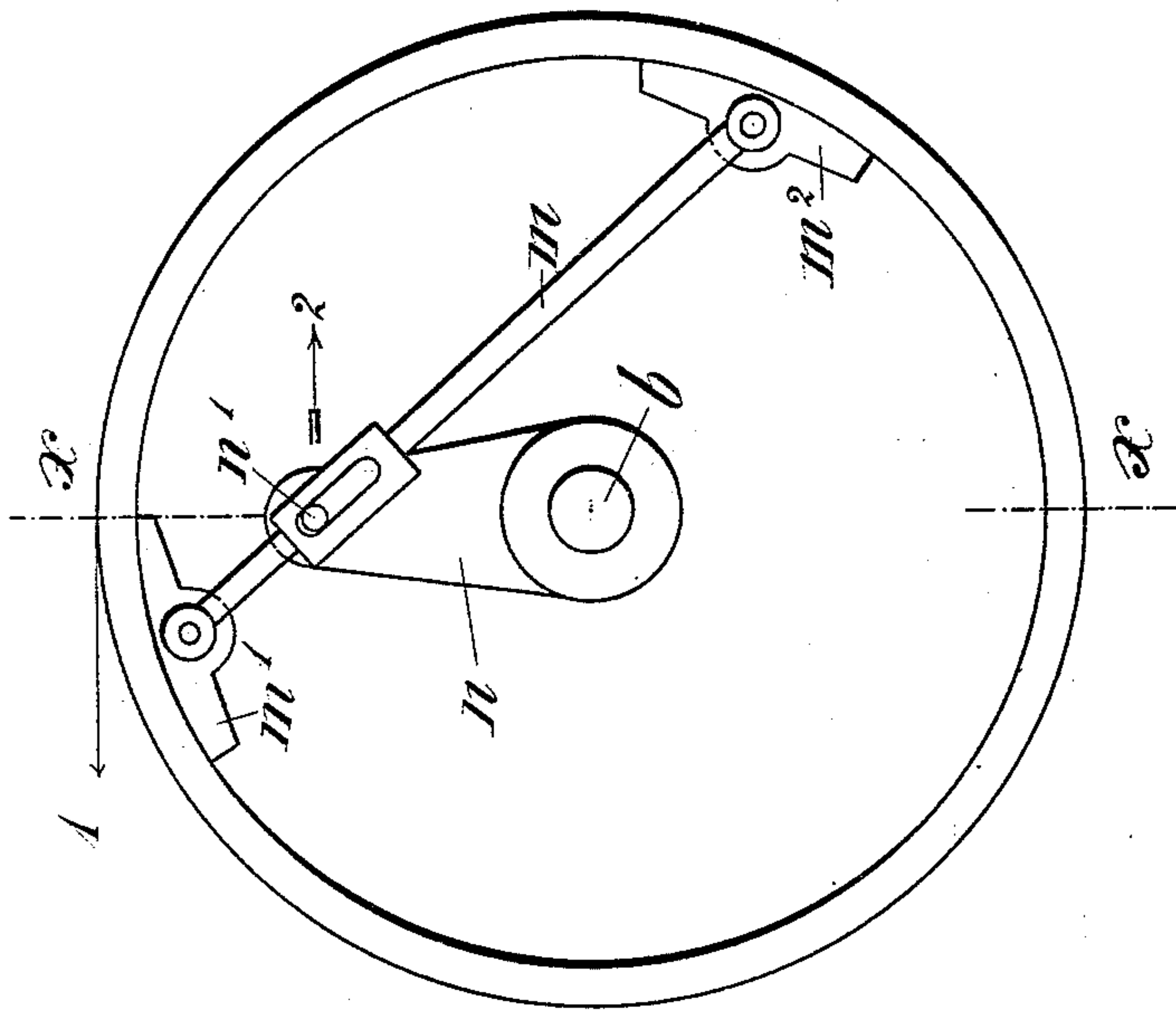


Fig. 1.



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Att'y.

# UNITED STATES PATENT OFFICE.

EUGEN HABER, OF VIENNA, AUSTRIA-HUNGARY.

## COUPLING.

SPECIFICATION forming part of Letters Patent No. 630,882, dated August 15, 1899.

Application filed April 29, 1898. Serial No. 679,267. (No model.)

*To all whom it may concern:*

Be it known that I, EUGEN HABER, a subject of the Emperor of Austria-Hungary, residing at Vienna, Empire of Austria-Hungary, have invented certain new and useful Improvements in Couplings, of which the following is a full, clear, and exact specification.

The present invention relates to a coupling-clutch; and it consists of the details of construction hereinafter set forth, and particularly pointed out in the claim.

In order to render the present specification more easily intelligible, reference is had to the accompanying drawings, in which similar letters of reference denote similar parts throughout both the views.

Figure 1 is an elevation of the clutch; and Fig. 2, a vertical cross-section through the same on line *x x*, Fig. 1.

The two shafts *a* and *b* are mounted concentrically, the crank-arm *n* being keyed to *b* and the disk *M*, having cylindrical rim, being keyed fast to *a*. Within the disk-rim a cross-bar *m* is mounted and connected by a slot to the pin *n'* of the crank-arm *n*, the said bar having mounted pivotally at either end the friction blocks or shoes *m' m''*, adapted to contact with the interior surface of the rim of the disk *M*.

The operation of the device is such that the

two shafts *a* and *b* will be coupled thereby in any case—*i. e.*, it is a matter of indifference which of the two shafts is the driven shaft. If *b* is the driven shaft in the direction of the arrow 2, the pin *n'* will force the bar *m*, and with it the friction-blocks *m' m''*, against the rim of the disk *M* and effect the coupling, and if the disk *M* is driven in the direction of the arrow 1 the friction-coupling between the rim and the friction-shoes will also be effected, and the shaft *b* will be operated from the disk *M*.

I claim as my invention—

A double-acting friction-coupling, consisting of two concentrically-mounted shafts *a* and *b*, a crank-arm fast on one of said shafts and a disk having suitable rim fast on the other, shoes adapted to contact and form a friction-coupling with the said disk-rim, said shoes being connected pivotally to a rigid bar having a pin-and-slot connection with the end of the crank-arm in the manner and for the purpose substantially as described.

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

EUGEN HABER.

Witnesses:

HENRY C. CARPENTER,  
FRED BERING.