

P. TOELPE.
 ADJUSTABLE SUPPORT FOR FALSE WORK FOR FLOORS.
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1,031,209.

Patented July 2, 1912.

fig. 1

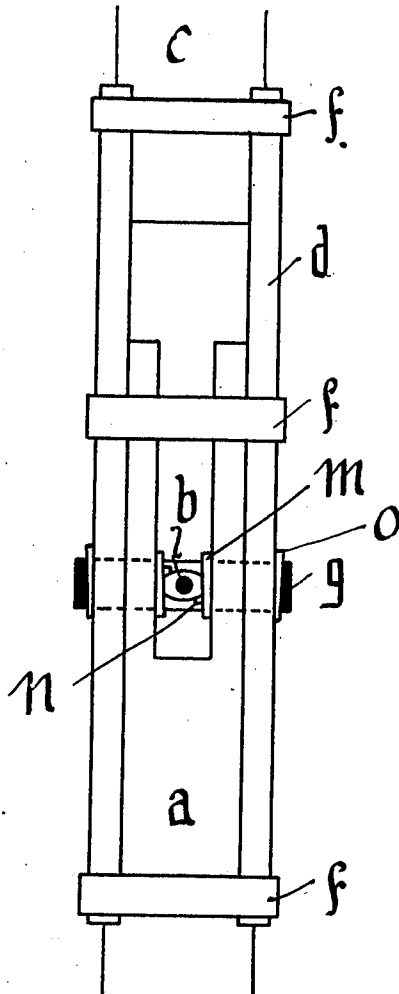


fig. 2

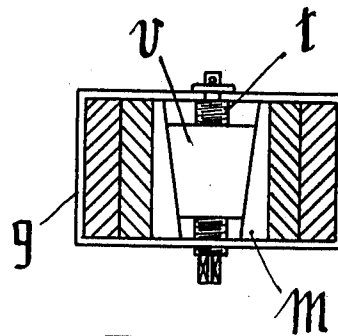
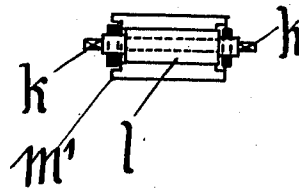


fig. 3

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UNITED STATES PATENT OFFICE.

PHILIPP TOELPE, OF MAGDEBURG, GERMANY.

ADJUSTABLE SUPPORT FOR FALSE WORK FOR FLOORS.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, PHILIPP TOELPE, a subject of the King of Prussia, German Emperor, residing at Magdeburg, in the Kingdom of Prussia, German Empire, have invented certain new and useful Improvements in an Adjustable Support for False Work for Floors, of which the following is a specification.

10 This invention relates to an adjustable support for false work for floors in which an eccentric serving as locking device is arranged in the middle between two telescopic parts of the support. This device permits
15 of obtaining a uniform tension for a great length of the two wooden parts which are in contact, by means of a comparatively little pressure so that the support is secured against displacement even under a considerable load. To prevent the eccentric from
20 penetrating into the wood of the two parts of the support and in order to insure a uniform distribution of pressure, plates are inserted between the eccentric and the wood
25 which have noses at their upper edge gripping over the band which embraces the connecting parts. In this manner an unintentional displacement of the strengthening plates is prevented. The strengthening
30 plates are slightly conical and arranged in such a manner that the thickened part of the plates is at the side which is pushed between the wood and the eccentric in consequence of the turning of said eccentric.
35 The conical shape of the plates prevents an accidental displacement of the plate even if the eccentric is tightened very much.

In the accompanying drawings the invention is shown by way of example:—
40 Figure 1 is front elevation of the support. Fig. 2 is a cross section of the same, and Fig. 3 shows on a larger scale and in cross section, a modified form of construction.

45 The lower support *a* has at its upper end a vertical slot *b* with which the locking device engages. This locking device is maintained upon the upper part *c* of the support and more particularly upon the arms *d* of said upper part which are connect-

ed by bands *f*, *g*. In the band *g* the locking device is mounted. It consists of an axle *h* which has a square end *k* and upon which an eccentric *l* is keyed which is flattened at its largest parts, that is, at the parts which bear against the clamping
55 plates *m* when the eccentric is being operated. The clamping plates *m* are slightly conical in order to prevent an accidental displacement of the same, and they have noses *m'* which grip over the band *g*. In
60 order to prevent the turning of the clamping device when a very strong pressure is exerted the clamping plates *m* have small nipples *n* which serve as abutments and bear against the flattened parts of the eccentric,
65 limiting thus the turning of the same. The bands *f*, *g*, can be fixed to the wooden support by means of screws. There could, however, be arranged wedge-shaped plates *o* which are inserted between the bands and
70 the outer surface of the wooden support and which serve for readjusting the connection.

The device for re-tightening the connecting band can further consist in a wedge adapted to be moved upon a screw spindle
75 as shown in Fig. 3. This screw spindle *t* which is mounted in the connecting band *g*, carries a cone-shaped nut *v* which bears against the wedge-shaped clamping plates *m* and by turning the screw spindle *t* in the
80 one or in the other direction the cone *v* can be moved so as to loosen or tighten the wedge-shaped clamping plates *m*.

I claim:—

85 An adjustable support for false work for floors comprising in combination a lower part having a vertical slot at the upper end, and an upper part having downwardly projecting arms between which said lower part is telescoped, iron bands embracing said down-
90 wardly projecting arms of the upper part, an axle revolvably fixed in the band which is arranged at the height of the said vertical slot, square ends of said axle, an eccentric mounted upon said revolvable axle, wedge-shaped
95 clamping plates inserted between the ends of the eccentric and the walls of said vertical slot of the lower support, noses project-

ing from the upper edge of said clamping
plates and gripping over said connecting
band and stops inwardly projecting from
said clamping plates for limiting the turn-
5 ing of the eccentric, substantially as de-
scribed and shown and for the purpose set
forth.

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

PHILIPP TOELPE.

Witnesses:

CHRISTIAN SHEFFER,
HANS EYCK.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."