

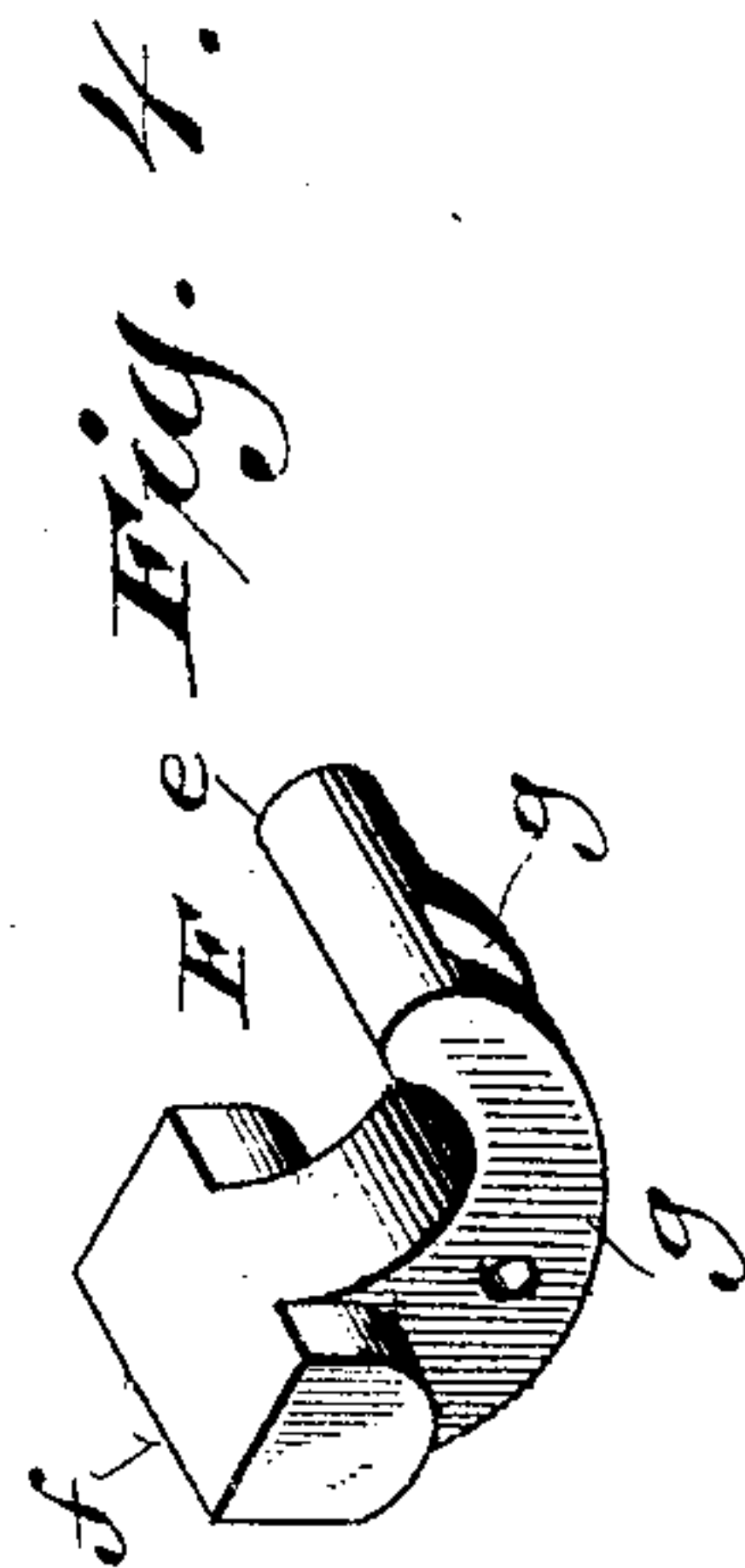
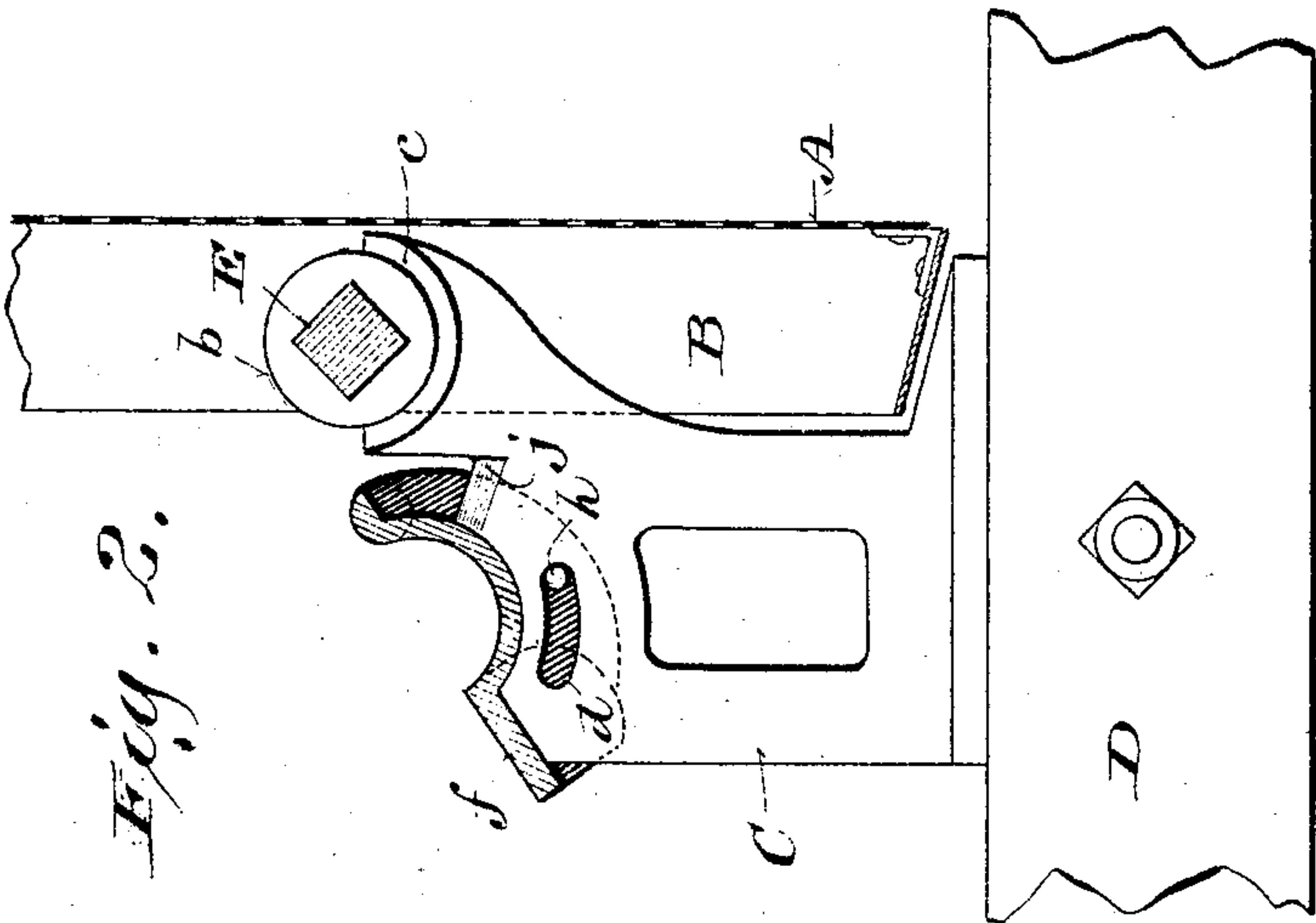
No. 765,214.

PATENTED JULY 19, 1904.

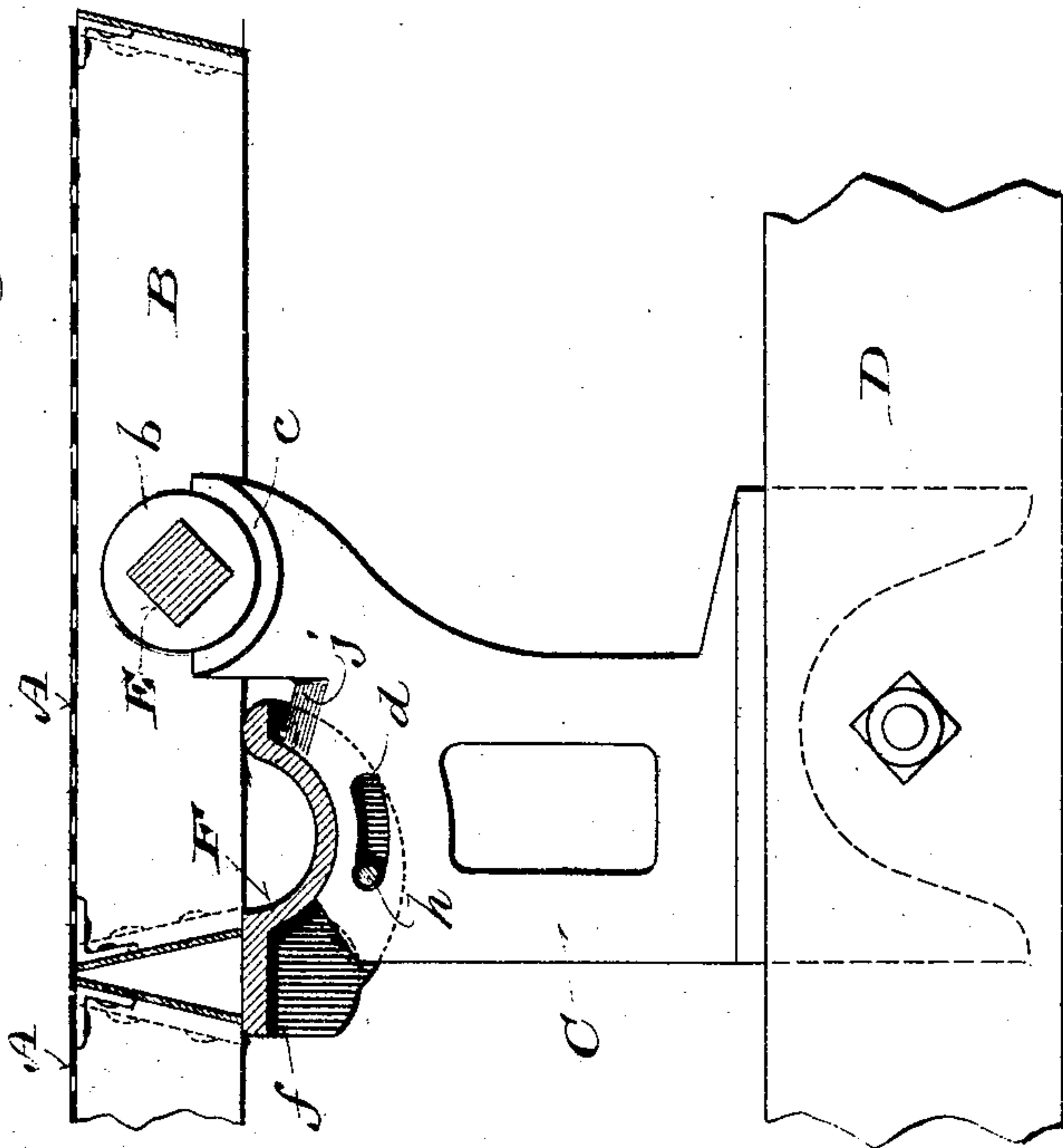
P. G. TOEPFER.  
MALT KILN.

APPLICATION FILED MAR. 21, 1904.

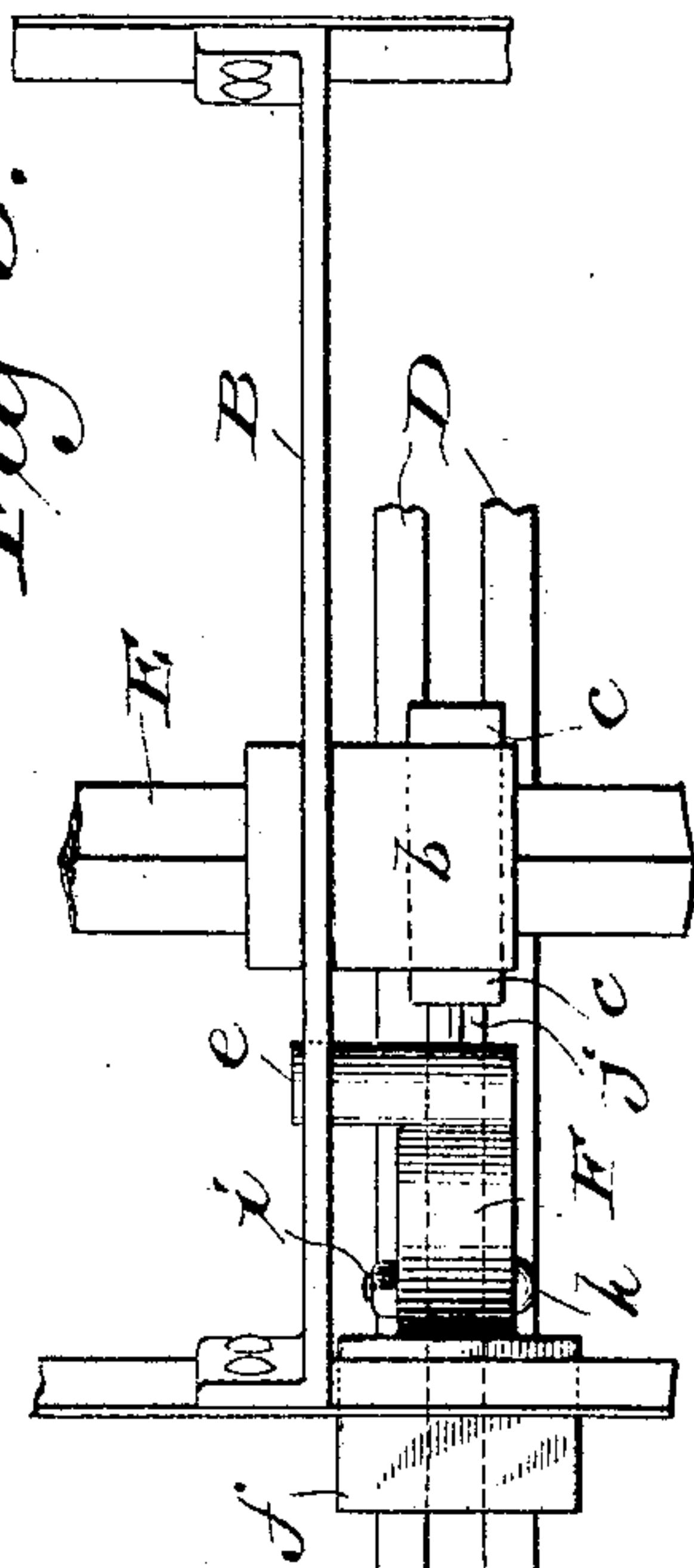
NO MODEL.



*Fig. 1.*



*Fig. 3.*



Witnesses  
Geo. W. Young,  
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# UNITED STATES PATENT OFFICE.

PETER G. TOEPFER, OF MILWAUKEE, WISCONSIN.

## MALT-KILN.

SPECIFICATION forming part of Letters Patent No. 765,214, dated July 19, 1904.

Application filed March 21, 1904. Serial No. 199,114. (No model.)

*To all whom it may concern:*

Be it known that I, PETER G. TOEPFER, a citizen of the United States, and a resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Malt-Kilns; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention consists in what is hereinafter particularly set forth with reference to the accompanying drawings and subsequently claimed, its object being to improve the mechanism disclosed in my United States Patent No. 588,507 of August 17, 1897, and to prevent clogging of rockers analogous to those in said patent.

Figure 1 of the drawings represents a transverse section view of a fragment of a malt-kiln dumping-floor and illustrates a tray-supporting rocker of novel construction in working position; Fig. 2, a similar view illustrating a dumped tray and a tilted rocker; Fig. 3, a plan view of a fragment of said floor, the perforated bottom of the tray in this view being omitted; and Fig. 4, a perspective view of a tray-supporting rocker detached from the bracket with which it has adjustable connection.

Referring by letter to the drawings, A indicates each of a plurality of dumping-trays constituting floor-sections of a malt-kiln, these trays being similar to those set forth in the patent aforesaid as having transverse frame members B thereof provided with hubs *b*, that turn in bearings *c*, with which brackets C are provided. The brackets are supported on girders D, and a shaft E is rigid in the hubs of each tray. The brackets herein shown differ from those in the patent above noted by the omission of the semicircular pockets set forth in said patent; but the upper edge of that portion of each bracket to one side of and below the bearing *c* is for the most part a semicircular depression, and a curved slot *d* is provided in said bracket. The semicircular depression in each bracket is a track for a rocker F, that has the same function as a similar device set forth in the former patent, but differs therefrom in the matter of construction,

the new rocker being shown as a partly semicircular housing weighted at one end and having its other end preferably provided with a lateral lug *e*, that is normally opposed by a transverse member B of a tray. The weighted end *f* of each of the new rockers is normally horizontal, and opposing sides of adjacent tray-frames rest edgewise thereon; but when the trays are dumped said rocker has automatic tilt to afford the necessary clearance for one of said trays. The weighted end of each tilted rocker is stopped against a bevel corner of the corresponding bracket, and to prevent displacement of said rocker the side flanges *g* of the same are provided with suitable apertures engaged by a bolt *h*, that also engages the slot in said bracket, a nut *i* being run on the screw-threaded end of the bolt. When the trays are brought into position to receive the malt, the pressure of said trays on the lugs *e* of the rockers F throws the weighted ends of said rockers up under two adjacent tray-frames and virtually clamps the same, so that the malt-opposing surfaces of both trays are flush one with the other.

Owing to the peculiar construction of the new rockers and the fact that each of the same is astraddle of a bracket instead of in a pocket of the same, said rockers do not become clogged by material dropping from the trays. It is also to be noted that each bracket C is tapered at *j* to shed material dropping from trays.

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

1. The trays having their frames provided with hubs, the brackets on which said hubs have their bearing, and the rockers that are each in the form of a housing astraddle of a bracket and weighted at one end.

2. The trays having their frames provided with hubs, the brackets on which said hubs have their bearing, and the rockers that are each in the form of a housing astraddle of a bracket and weighted at one end, its other end being provided with a lateral lug normally opposed by a transverse member of a tray-frame.



3. The trays having their frames provided with hubs, the brackets on which said hubs have their bearing, the rockers each in the form of a housing astraddle of a bracket and  
5 weighted at one end, and bolts carried by said rockers in engagement with slots in said brackets.

4. The trays having their frames provided with hubs, the partly-tapered brackets on  
10 which said hubs have their bearing, and the rockers that are each in the form of a hous-

ing astraddle of a bracket and weighted at one end.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in 15 the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

PETER G. TOEPFER.

Witnesses:

N. E. OLIPHANT,  
R. J. BARSCH.