

No. 612,285.

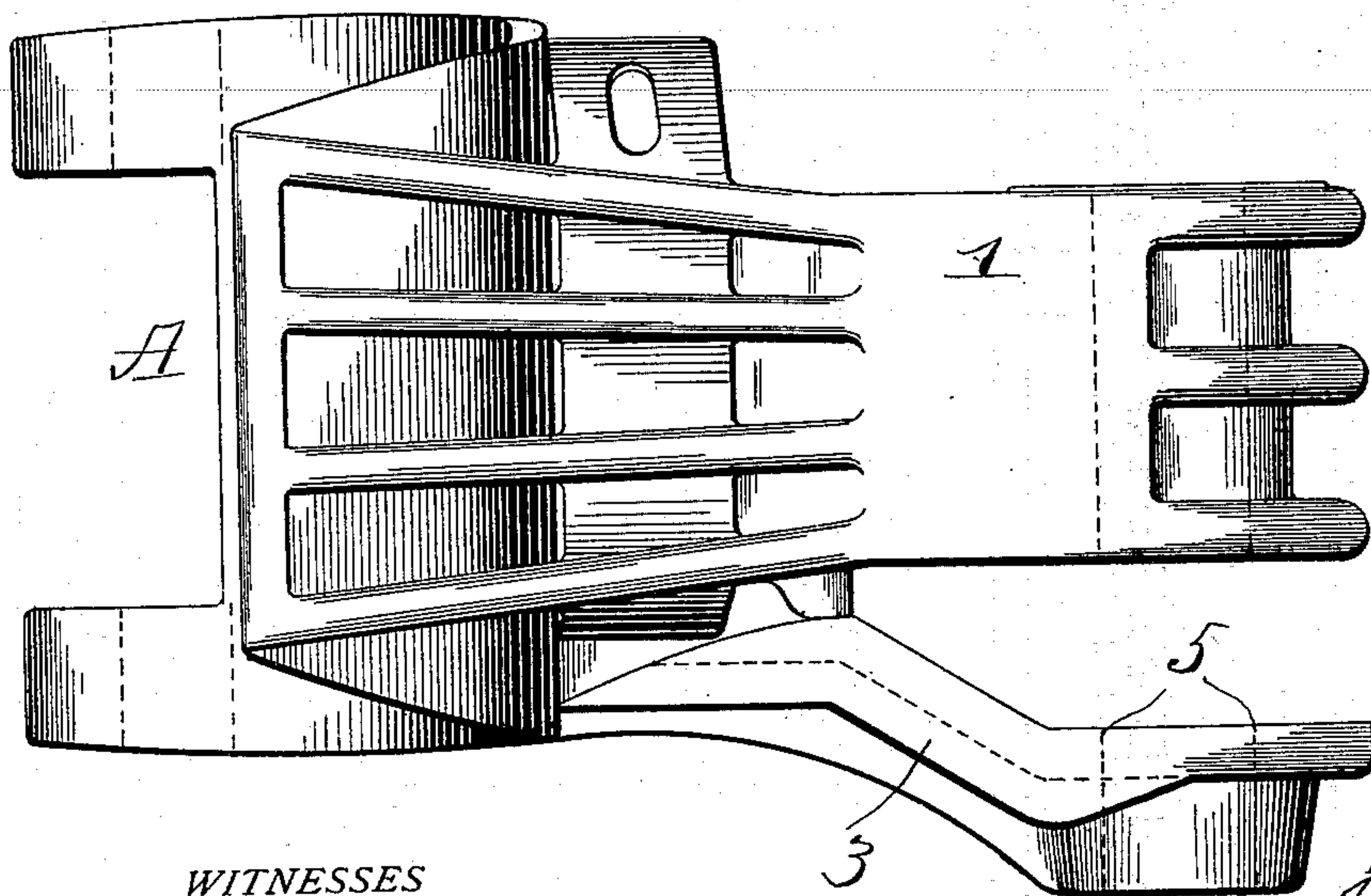
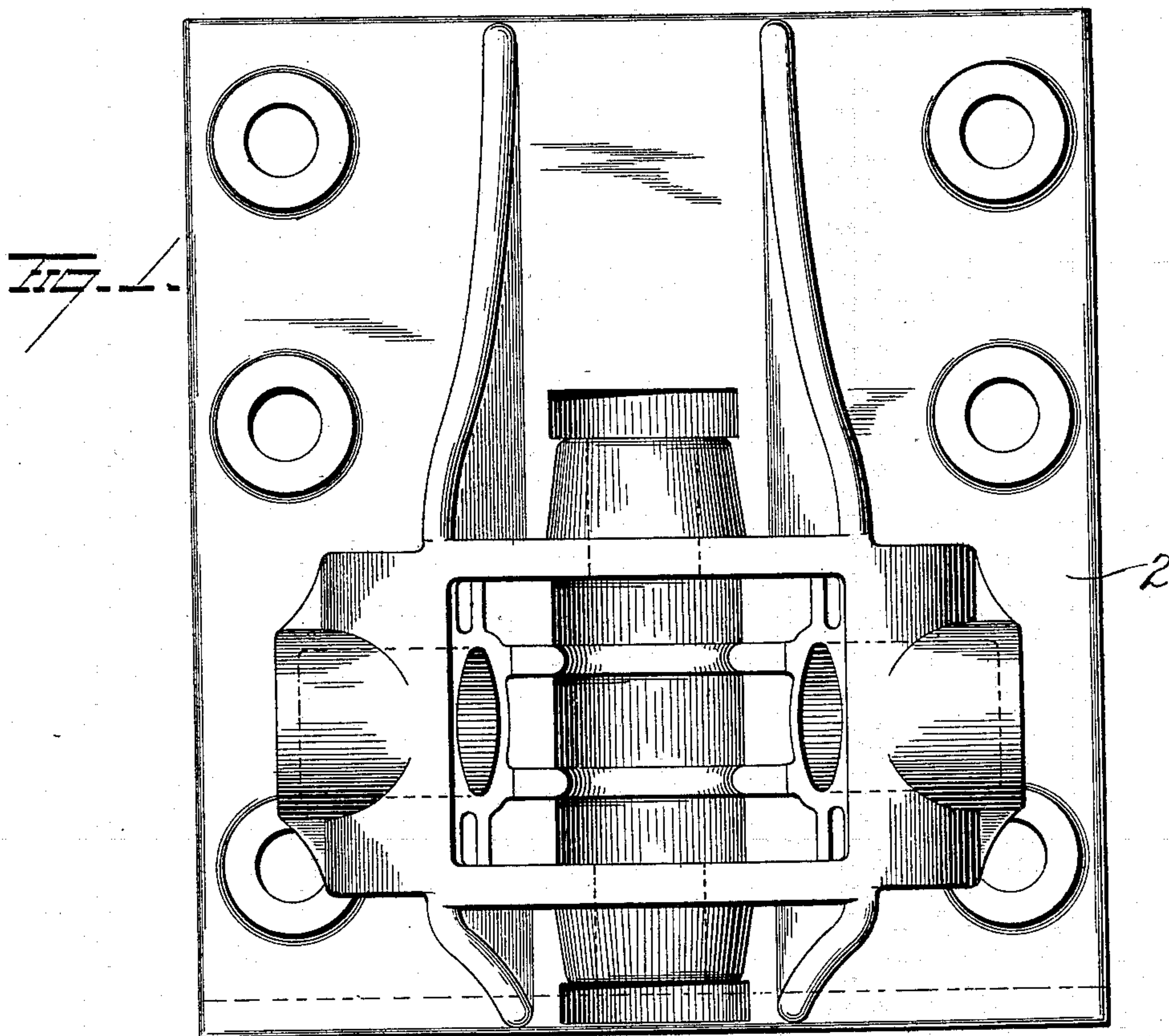
Patented Oct. 11, 1898.

J. TIMMS.  
CAR COUPLING.

(Application filed Jan. 29, 1898.)

(No Model.)

2 Sheets—Sheet 1.



WITNESSES  
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G. F. Downing

INVENTOR  
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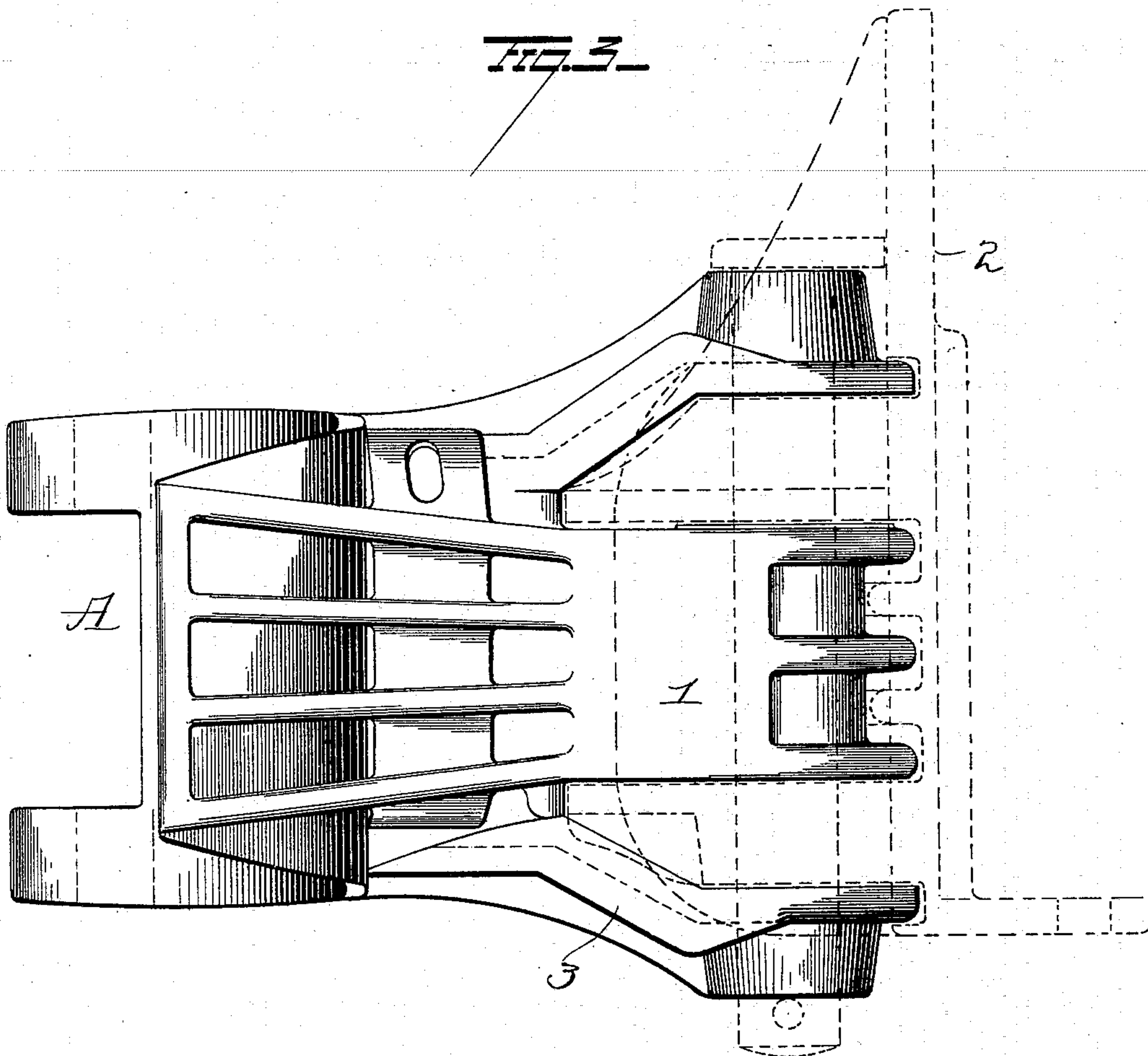
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# UNITED STATES PATENT OFFICE.

JAMES TIMMS, OF COLUMBUS, OHIO, ASSIGNOR TO THE BUCKEYE MALLE-  
ABLE IRON AND COUPLER COMPANY, OF SAME PLACE.

## CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 612,285, dated October 11, 1898.

Application filed January 29, 1898. Serial No. 668,441. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES TIMMS, of Colum-  
bus, in the county of Franklin and State of  
Ohio, have invented certain new and useful  
5 Improvements in Car-Couplings; and I do  
hereby declare the following to be a full, clear,  
and exact description of the invention, such  
as will enable others skilled in the art to which  
it appertains to make and use the same.

10 My invention relates to an improvement in  
car-couplings, and more particularly to that  
class in which the draw-bar necessarily has to  
be short, as in the tenders of locomotives, the  
object being to prevent the draw-head from  
15 dropping and to afford increased strength in  
pulling and buffing.

With the above as the object in view my  
invention consists in certain novel features  
of construction and combinations of parts,  
20 which will be hereinafter described, and point-  
ed out in the claims.

In the accompanying drawings, Figure 1 is  
a view of the end bracket, which is secured  
to the tender. Fig. 2 is a side elevation of  
25 the draw-head, and Fig. 3 is a view of a modi-  
fication.

A represents the draw-head. In lieu of the  
usual draw-bar it has a short shank 1, by  
means of which it is connected with the end  
30 bracket 2 of the tender.

As a means of preventing "tender-coup-  
lings" from sagging, different expedients have  
been adopted. For instance, the bracket has  
been furnished with an outwardly-extended  
35 floor for the support of the draw-head. In  
Letters Patent granted to me June 28, 1898,  
and designated by No. 606,603, I have shown  
an arm extended up over the top of the  
bracket; but instead of the arm above the  
40 bracket I propose in my present invention to  
provide an arm beneath, as at 3. This is quite  
as effectual as an arm above the bracket, and  
in many instances it is better to employ an  
arm of this character. Its function is pretty  
45 well understood by the allusion made in the  
statement of objects, which is to prevent sag-

ging of the coupling and to greatly increase  
the strength and durability of the coupling  
in pulling and buffing.

In my device the arm rests under the lower 50  
face of the base of the bracket and in such  
proximity to the face of the bracket that in  
buffing strain will fall on the bracket and  
not on the coupling-pin when the latter be-  
comes worn. 55

As a modification I have shown a construc-  
tion in Fig. 3 employing two arms, one above  
and one below the bracket. This obviously  
increases the strength, and while not always  
necessary by any means still it is a possible 60  
and in some instances a desirable form of con-  
struction.

When one or both arms are used, they are  
provided with a hole 5 in line with the hole  
in the shank, and the same pin which holds 65  
the shank of the draw-head pivotally in the  
bracket also passes through the arm or arms,  
thus making a perfectly simple construction  
and at the same time one of great strength  
and capable of withstanding the punishment 70  
to which couplings are subjected.

It is evident that slight changes might be  
resorted to in the form and arrangement of  
the several parts described without departing  
from the spirit and scope of my invention, and 75  
hence I do not wish to limit myself to the pre-  
cise construction shown and described; but,

Having fully described my invention, what  
I claim as new, and desire to secure by Letters  
Patent, is— 80

1. In a tender-coupling, the combination  
with a recessed bracket, and a draw-head hav-  
ing a shank to enter said recessed bracket, of  
an independent arm integral with and pro-  
jecting laterally and rearwardly from the 85  
draw-head, the free end of said arm terminat-  
ing so as to be disposed parallel with the shank  
and adapted to enter said recessed bracket at  
a point distant from that at which the shank  
of the draw-head enters said bracket, said 90  
arm having a hole in alinement with the hole  
in the shank for the reception of a pin, the

free ends of said shank and arm being normally disposed in such proximity to the bottoms of the recesses in the bracket that buffing strain will be sustained by the latter when  
5 the coupling-pin becomes worn, substantially as set forth.

2. In a tender-coupling, the combination with a bracket, of a draw-head having a short shank and an arm above and below, and a pin

which pivots the shank and two arms to the bracket. 10

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

JAMES TIMMS.

Witnesses:

C. D. BEARDSLEY,  
JOHN F. OGLEVIE.