

(No Model.)

T. M. GALLAGHER.

COMBINED SPRING SEAT, BOLSTER GUIDE, AND SAND BOARD FOR  
RAILROAD CARS.

No. 598,417.

Patented Feb. 1, 1898.

Fig. I.

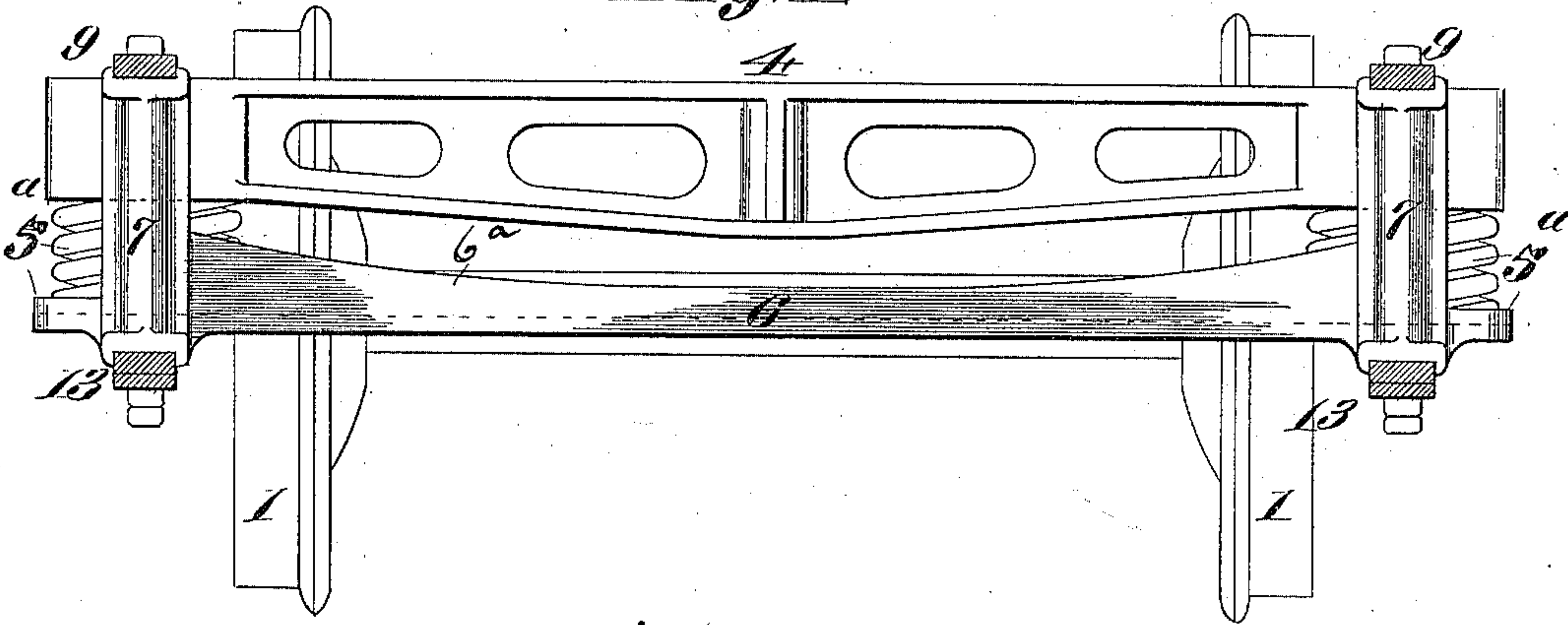


Fig. II.

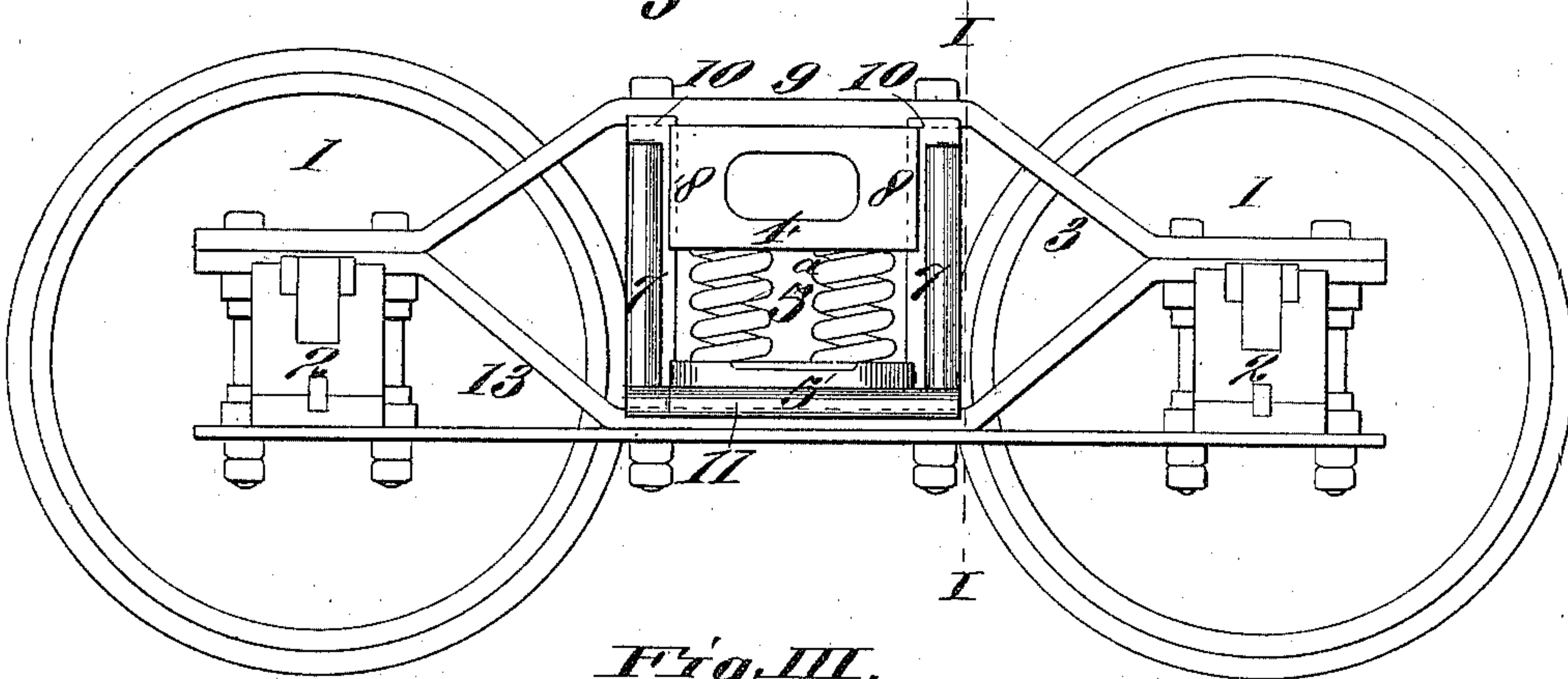


Fig. III.

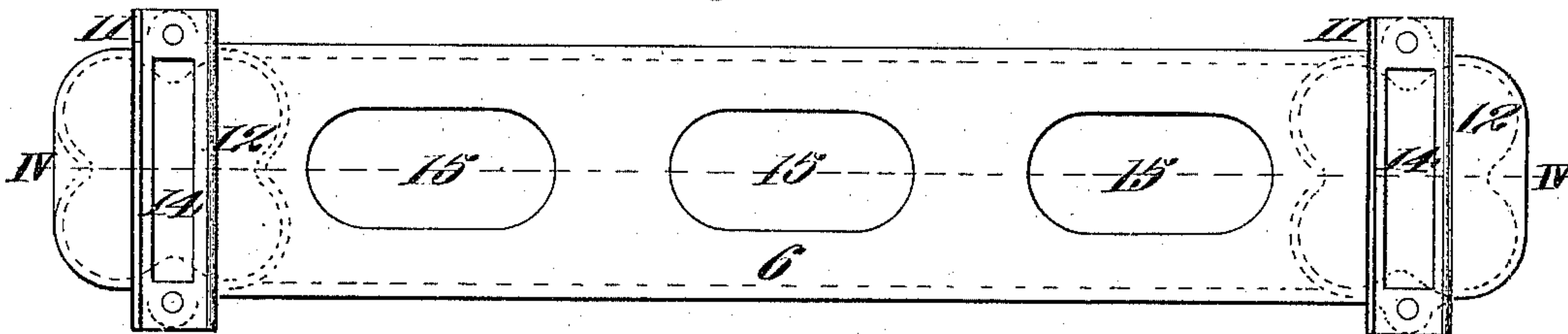
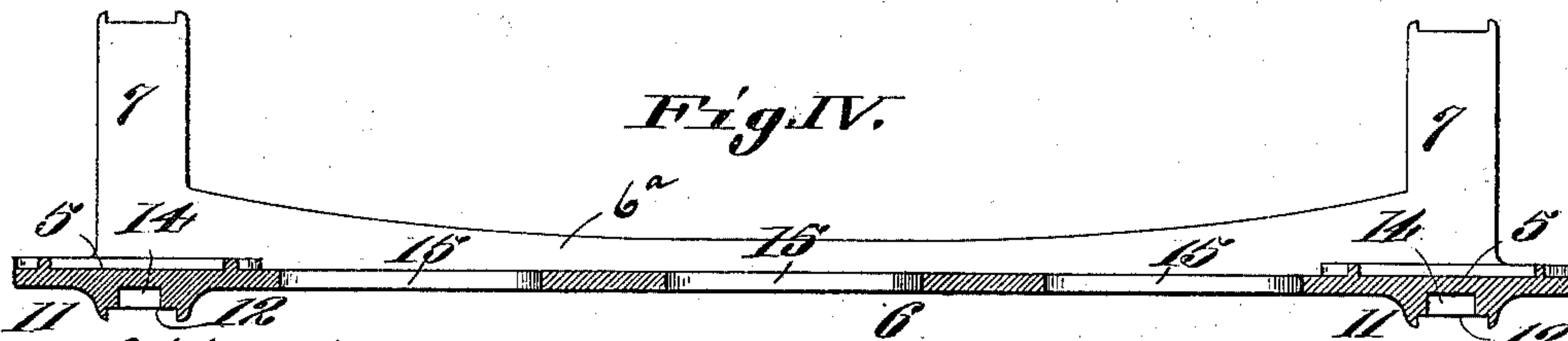


Fig. IV.



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# UNITED STATES PATENT OFFICE.

THOMAS M. GALLAGHER, OF ST. LOUIS, MISSOURI, ASSIGNOR TO THE SHICKLE,  
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COMBINED SPRING-SEAT, BOLSTER-GUIDE, AND SAND-BOARD FOR RAILROAD-CARS.

SPECIFICATION forming part of Letters Patent No. 598,417, dated February 1, 1898.

Application filed May 3, 1897. Serial No. 634,878. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS M. GALLAGHER, a citizen of the United States, residing at the city of St. Louis, in the State of Missouri, have  
5 invented a certain new and useful Improvement in a Combined Spring-Seat, Bolster-Guide, and Sand-Board for Railway-Cars, of which the following is a full, clear, and exact description, reference being had to the  
10 accompanying drawings, forming a part of this specification.

My invention relates to certain improvements hereinafter particularly pointed out and claimed.

15 Figure I is a vertical transverse section of a car-truck, taken on line I I, Fig. II, and showing my improved combined spring-seat, bolster-guide, and sand-board in elevation. Fig. II is an end view of the truck. Fig. III  
20 is a bottom view illustrating my invention. Fig. IV is a vertical section taken on line IV IV, Fig. III.

Referring to the drawings, 1 represents the wheels, 2 the axle-boxes, 3 the truck-frame,  
25 and 4 the bolster, of a car-truck, all of which may be of any desired form or construction.

5 represents the seats that receive the springs 5<sup>a</sup>, upon which the bolster rests. These seats are connected by a sand-board 6,  
30 which is cast or formed integral with the seats, thereby making a strong, durable, and relatively cheap construction.

7 represents the bolster or column guides, which are formed integral with the spring-  
35 seats and sand-board and between which the bolster 4 is located, as shown in Figs. I and II, these guides consisting of a pair of arms at each end of the sand-board, one end of the bolster fitting between one pair of the arms  
40 and the other end of the bolster fitting between the other pair of the arms and the bolster being notched at each end to receive the arms, as shown by dotted lines 8, Fig. II.

The upper ends of the arms of the guides are notched to receive the upper chord 9 of the  
45 truck-frame, as indicated at 10, Fig. II. At each end of the sand-board, beneath the spring-seats 5, are ribs or projections 11, grooved, as shown at 12, Fig. IV, to receive  
50 the lower chord 13 of the truck-frame. I have shown these ribs chambered out at 14 for the purpose of lightening the structure, and for this purpose also I have shown the sand-board  
55 formed with openings 15. The sand-board has integral side flanges 6<sup>a</sup>, provided for the purpose of strengthening and stiffening it.

I claim as my invention—

1. As a new article of manufacture, a combined spring-seat, bolster-guide and sand-  
60 board for railway-cars, all formed integral, substantially as set forth.

2. As a new article of manufacture a sand-board formed with grooved ribs on its lower  
65 surface, spring-seats above said ribs, and bolster-guides rising from each end of the sand-board, all of said parts being cast integral, substantially as set forth.

3. As a new article of manufacture, a sand-board and spring-seats for railway-cars  
70 formed integral; said sand-board having integral flanges, substantially as set forth.

4. As a new article of manufacture, a sand-board, and spring-seats for railway-cars  
75 formed integral on the ends of the sand-board, said sand-board having integral flanges; substantially as set forth.

5. As a new article of manufacture, a sand-board, and spring-seats for railway-cars  
80 formed integral on the ends of the sand-board, and the column-guides; said sand-board having integral flanges; substantially as described.

THOMAS M. GALLAGHER.

In presence of—

E. S. KNIGHT,  
STANLEY STONER.