

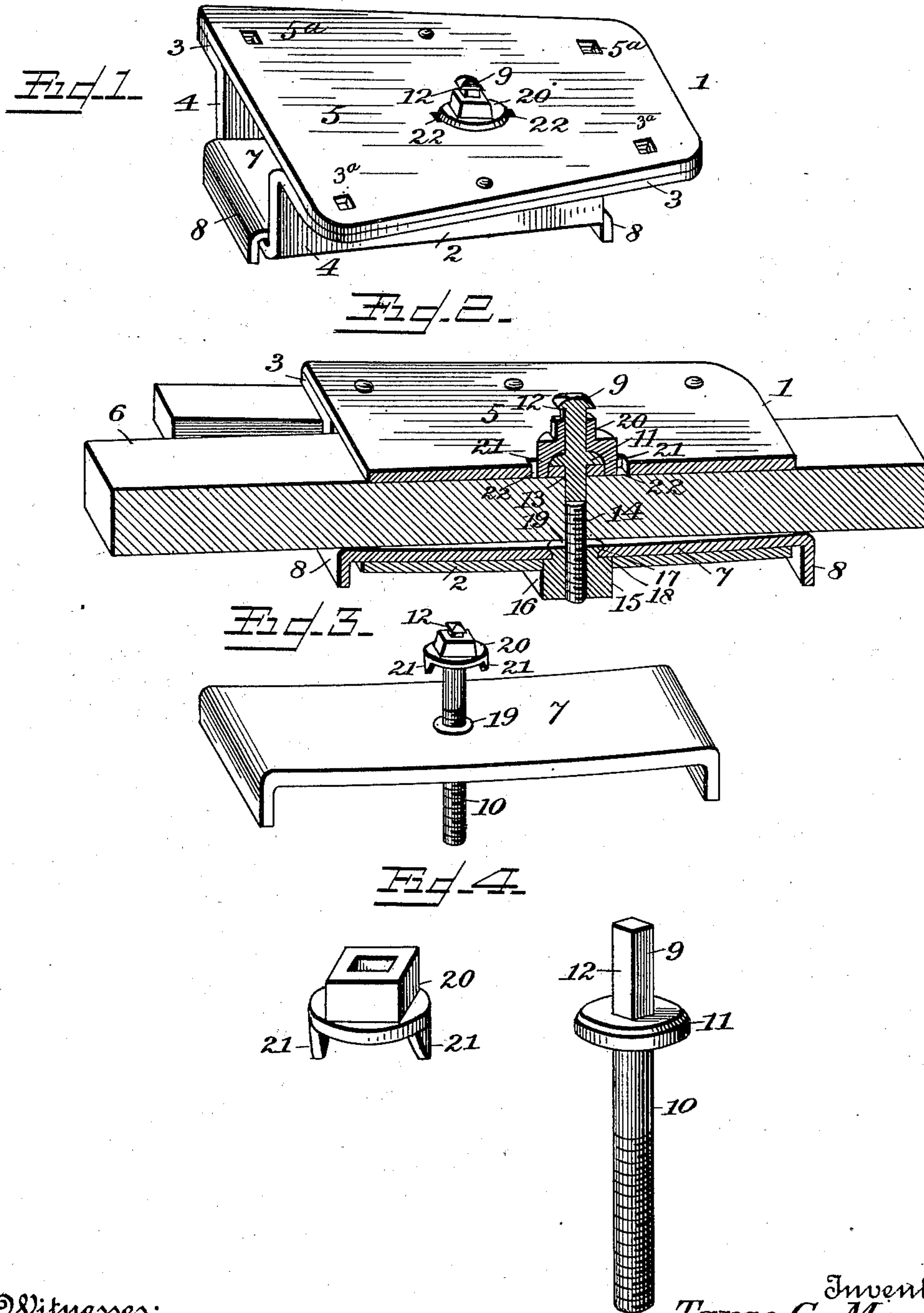
No. 692,163.

Patented Jan. 28, 1902.

T. G. MANDT.
REACH COUPLING.

(Application filed Aug. 15, 1901.)

(No Model.)



Witnesses:
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UNITED STATES PATENT OFFICE.

TARGE G. MANDT, OF STOUGHTON, WISCONSIN.

REACH-COUPLING.

SPECIFICATION forming part of Letters Patent No. 692,163, dated January 28, 1902.

Application filed August 15, 1901. Serial No. 72,177. (No model.)

To all whom it may concern:

Be it known that I, TARGE G. MANDT, a citizen of the United States, residing at Stoughton, in the county of Dane and State of Wisconsin, have invented new and useful Improvements in Reach-Couplings, of which the following is a specification.

My invention relates to reach-plates or couplings; and the object of the same is to construct a device of this character by means of which the reach may be adjustably and securely held against wobbling. This is accomplished by the simple and novel construction described in this specification and claimed, and illustrated in the accompanying drawings, forming a part thereof, in which—

Figure 1 is a perspective of my coupling. Fig. 2 is a longitudinal section of the coupling secured to the hounds and with the reach-pole inserted therein. Fig. 3 is a perspective view of the bowed spring-plate. Fig. 4 is a detail of the cap and reach-pin.

Like numerals of reference designate like parts in the different views of the drawings.

The numeral 1 designates the casing of my coupler, which casing comprises a box 2, open at the ends and having flanges 3 on the sides 4 thereof, and a plate 5, covering the top of said box 2. The flanges 3 and plate 5 are perforated at 3^a and 5^a, respectively, to accommodate bolts for securing the casing to the hind hounds shown in fragment. The sides 4 of the box 2 are parallel and form guides for a reach 6, which fits snugly between them.

To enable the reach 6 to be clamped securely, a bowed spring-plate 7 is mounted within the box 2. The plate 7 has downturned ends 8, which engage the ends of the box and prevent longitudinal movement when the reach 6 is being inserted in the casing. A reach-pin 9, having a threaded shank 10 and a flange 11 and squared head 12 thereon, is fitted in an aperture 13 in the plate 5 and extends through an aperture 14 in the reach and fits a nut 15. The body of the nut 15 is round, but is provided with a square head 16 to accommodate a wrench. The plate 7 is apertured at 17 and the box 2 at 18 to accommodate the nut, which is free to turn therein, but is held against withdrawal by a reduced end 19, which is riveted in the plate 7. The pin 9 is held against turning by a cap or lock-nut 20, which fits over the flange 11 and square head 12, is riveted on the head, and is provided with lugs 21, which engage apertures 22 in the plate 5.

In operation the reach 6 is inserted in the box 2 and the reach-pin 9 inserted through one of the apertures 14, of which there are a series in the reach, and the nut 15 turned until the plate is forced up against the reach 6. By the combination of the flange 11, nut 15, and lock-nut 20 the pin 9 is held securely against rattling.

I do not wish to be limited as to details of construction, as these may be modified in many particulars without departing from the spirit of my invention.

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

1. In a device of the class described, the combination of a box having apertured flanges thereon, a cover for said box, a bowed spring-plate mounted in said box and having downturned ends engaging the ends thereof, a reach-pin passing transversely through apertures in said cover, box, and spring-plate, and provided with a nut bearing on said spring-plate, substantially as described.

2. In a device of the class described, the combination of a box open at the ends and having perforated flanges thereon, a cover for said box, a curved spring mounted in said box and having downturned ends engaging the ends thereof, a reach-pin passing transversely through said cover, box and spring-plate, said pin having a flange thereon which bears on said cover, and a nut mounted to turn and bearing on the under side of said spring-plate, substantially as described.

3. In a device of the class described, the combination with a casing, of a spring-plate located in said casing, a reach-pin extending

transversely said casing and said spring-plate,
said pin having a threaded shank with a
flange and square head thereon, a locking-
nut provided with lugs fitting apertures in
5 said casing, said nut fitting said square head
and bearing on said flange, and a nut fitting
said threaded shank and bearing on said
spring-plate, substantially as described.

In testimony whereof I have hereunto set
my hand in presence of two subscribing wit- 10
nesses.

TARGE G. MANDT.

Witnesses:

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