

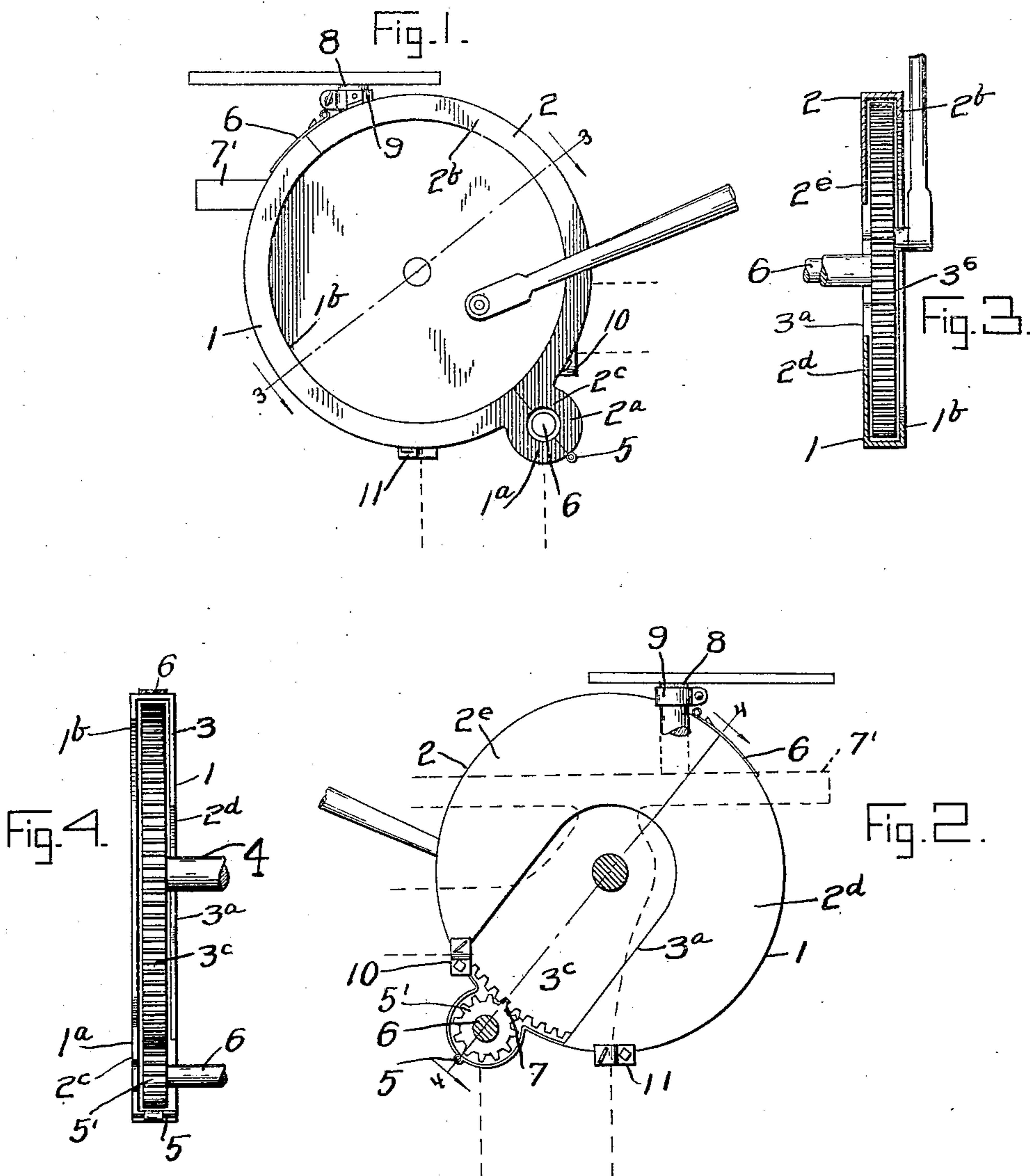
G. W. BANDY.

GEAR CASE.

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935,351.

Patented Sept. 28, 1909.



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# UNITED STATES PATENT OFFICE.

GEORGE W. BANDY, OF TALLAHASSEE, FLORIDA.

## GEAR-CASE.

935,351.

Specification of Letters Patent. Patented Sept. 28, 1909.

Application filed April 16, 1909. Serial No. 490,267.

*To all whom it may concern:*

Be it known that I, GEORGE W. BANDY, a citizen of the United States of America, residing at Tallahassee, in the county of Leon and State of Florida, have invented certain new and useful Improvements in Gear-Cases, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to gear cases, particularly adapted for use in connection with platen printing presses and the object thereof is to provide a gear case in a manner as hereinafter set forth which is so arranged in  
15 connection with the gear as to prevent the paper which is to be printed or has been printed from contacting with the gears of the press whereby soiling of the paper is obviated; to prevent foreign matter from engaging the teeth of the gears so as to retard the  
20 operation of the press, and furthermore to overcome any liability of accident to the press feeder from contact with the gears during the feeding of the press.

25 Further objects of the invention are to provide a gear case for the purpose set forth which shall be simple in its construction, strong, durable, efficient in its use, readily positioned in operative relation with respect to  
30 the gears, and inexpensive to manufacture.

With the foregoing and other objects in view the invention consists of the novel construction, combination and arrangement of parts hereinafter more specifically described  
35 and illustrated in the accompanying drawings, wherein is shown the preferred embodiment of the invention, but it is to be understood that changes, variations and modifications can be resorted to which come within  
40 the scope of the claim hereunto appended.

In the drawings, wherein like reference characters denote corresponding parts throughout the several views: Figure 1 is a side elevation of a gear case in accordance  
45 with this invention showing the adaptation thereof with the gears of a printing press. Fig. 2 is a like view looking from the other side. Fig. 3 is a section on line 3—3, Fig. 1, and, Fig. 4 is a section on line 4—4, Fig. 2.

50 Referring to the drawings in detail, the case consists of two semi-circular sections 1, 2, each having a semi-circular off-set, the off-sets are indicated by the reference characters 1<sup>a</sup>, 2<sup>a</sup>. The section 1 is formed with  
55 an inwardly extending semi-circular flange 1<sup>b</sup> which opposes a semi-circular flange 2<sup>b</sup>

extending inwardly and formed on the section 2. The flanges 1<sup>b</sup> and 2<sup>b</sup> abut. The off-set 1<sup>a</sup> as well as the off-set 2<sup>a</sup> being flanged as at 2<sup>c</sup>. The sections 1 and 2 are hinged  
60 together as at 5, the means to constitute the hinge is carried by the off-sets 1<sup>a</sup>, 2<sup>a</sup>. The sections 1 and 2 are detachably connected together by the latch 6. The flanges 1<sup>b</sup>, 2<sup>b</sup>, 2<sup>c</sup> are formed at one side of the case and are  
65 relatively narrow, the other side of the sections 1, 2, being formed with the inwardly extending flanges 2<sup>d</sup>, 2<sup>e</sup> which abut as at 3 and each is cut-away as at 3<sup>a</sup> to provide a  
70 clearance. The flanges 2<sup>d</sup> are wider than either of the flanges 1<sup>b</sup>, 2<sup>b</sup>. The flanges 1<sup>b</sup>, 2<sup>b</sup> and 2<sup>d</sup> constitute means for inclosing the gear wheel 3<sup>c</sup> which is mounted on the  
75 shaft 4 and meshes with the drive pinion 5' carried by the shaft 6 as at 7. The drive pinion 5' is positioned within the off-sets 1<sup>a</sup>, 2<sup>a</sup>.

The gear case is fixedly secured in position after it has been mounted to inclose the gear 3<sup>c</sup> and pinion 5' and for this purpose the  
80 paper support 7' of the press is provided with an upright 8 and the upper portion of the case is fixedly secured to the upright 8 by the clamp 9. The lower portion of the case is fixed to the machine frame through  
85 the medium of the adjustable clamps 10 and 11. The clamping of the case to the machine frame is had after the case has been positioned to inclose the gear 3<sup>c</sup> and pinion 5'. To provide for the straddling of the shaft 4  
90 the clearance hereinbefore referred to is utilized.

When the case is set up in operative relation with respect to the gear 3<sup>c</sup> and pinion 5' the teeth of the pinion and also the gear are  
95 protected not only at the edge but also the sides and owing to the employment of the case in the manner as shown, the paper which is being printed or has been printed is prevented from contacting with the gear or  
100 pinion so as to overcome any liability of the paper becoming soiled and furthermore foreign bodies are prevented from interfering with the operation of the gear as well as the pinion and furthermore the case prevents  
105 any likelihood of the attendant being injured by the gear during the feeding of the press.

What I claim is:

A gear case comprising two sections, each of said sections being formed with a semi-circular off-set, means at one end of each of the off-set portions for hinging the sections

together, means for detachably-connecting the free ends of the sections together, said means being diametrically-opposed to said hinge, each of said sections and each off-set  
5 being provided on one side with an inwardly-extending semi-circular flange, the flanges of the off-sets being formed integral with the flanges of said sections, the flanges of the off-sets abutting and the flanges of the sections abutting at each end, said sections being adapted to inclose a gear wheel and the off-set portions being adapted to inclose a pinion, each of said sections furthermore being provided on its other side with an in-

wardly-extending flange of greater width than the flange on its opposite side and abutting at one end, a pair of clamps carried by one of the sections and a clamp carried by the other of the sections, said clamps fixedly securing the case in position and for maintaining the case in operative relation with respect to the gear and pinion. 15 20

In testimony whereof I affix my signature in the presence of two witnesses.

GEORGE W. BANDY.

Witnesses:

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