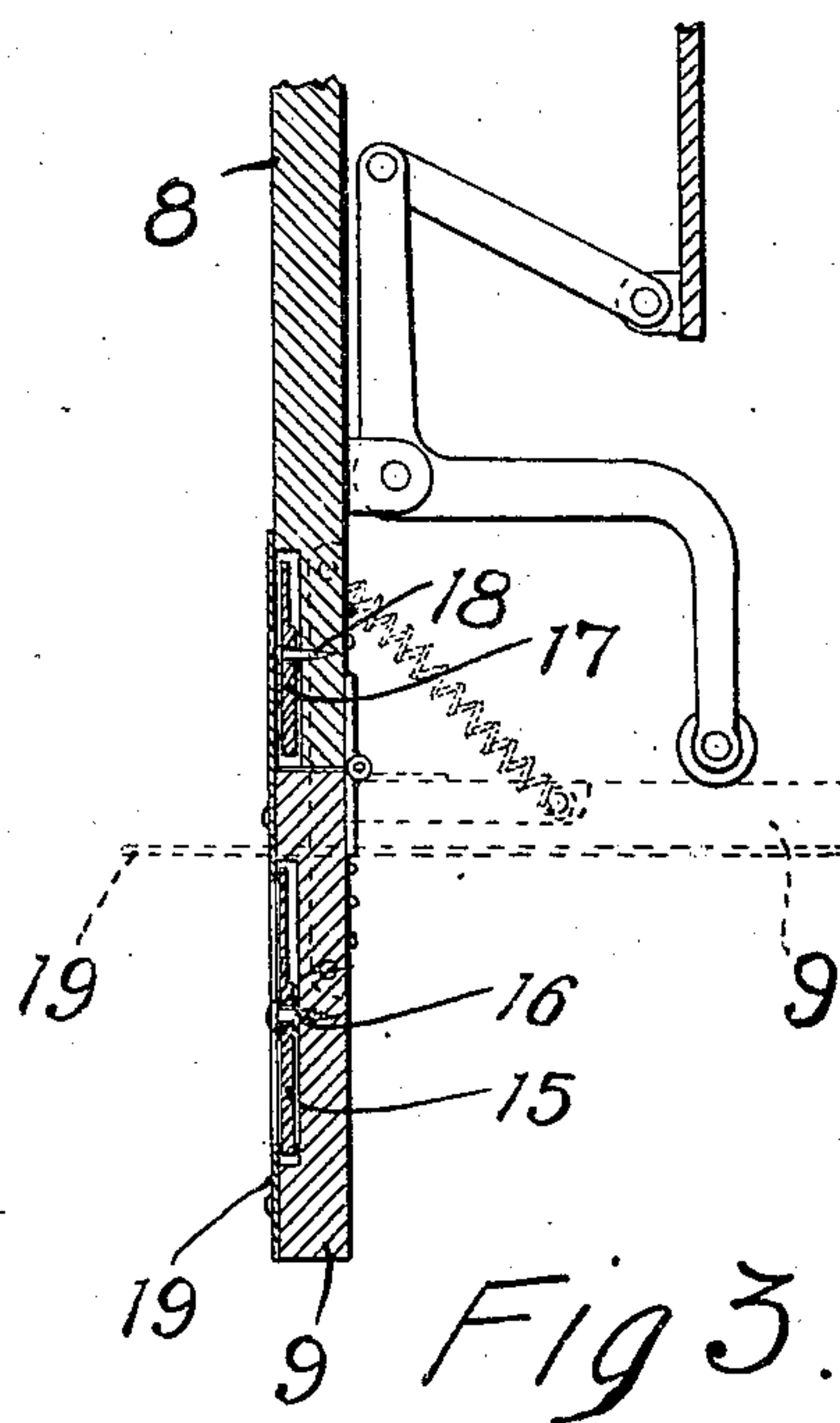
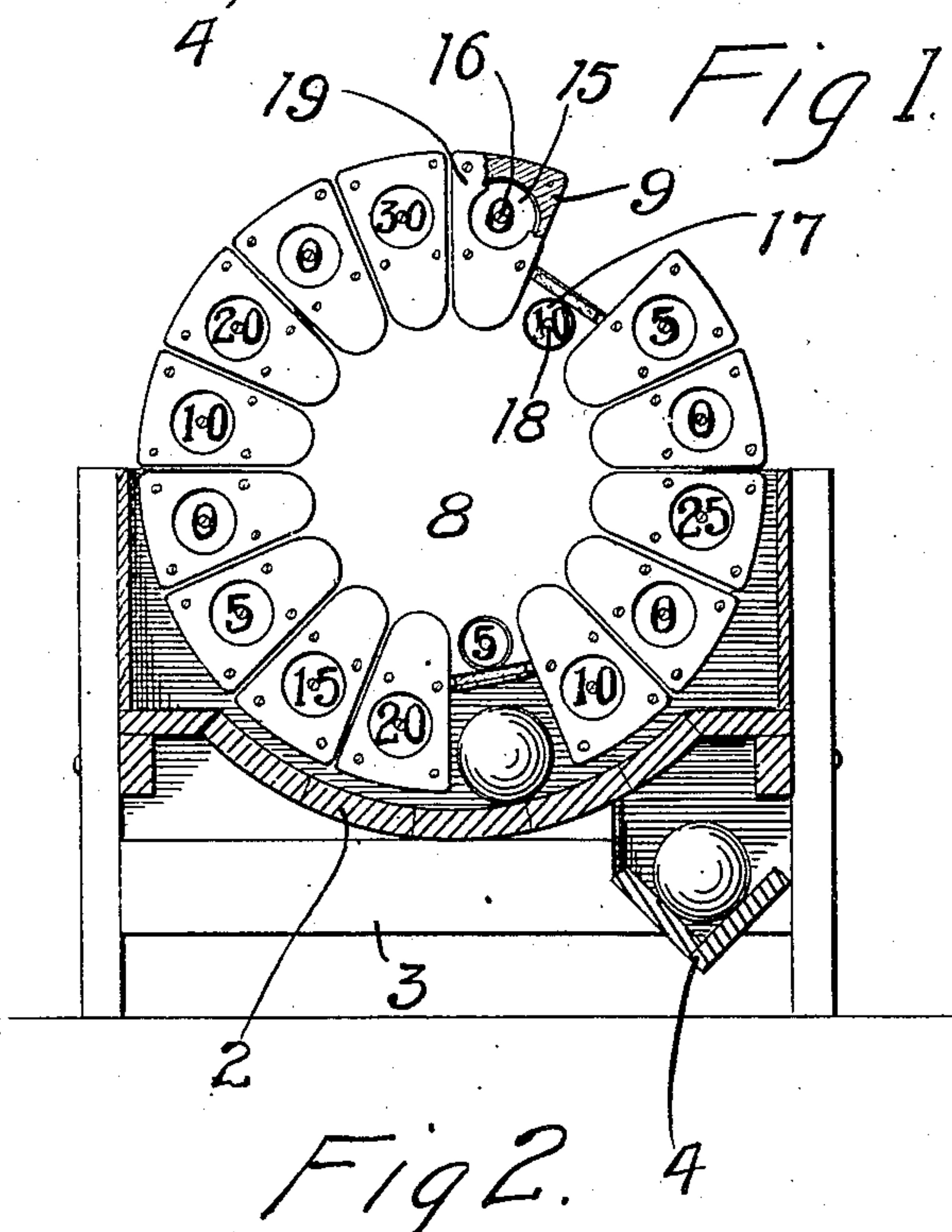
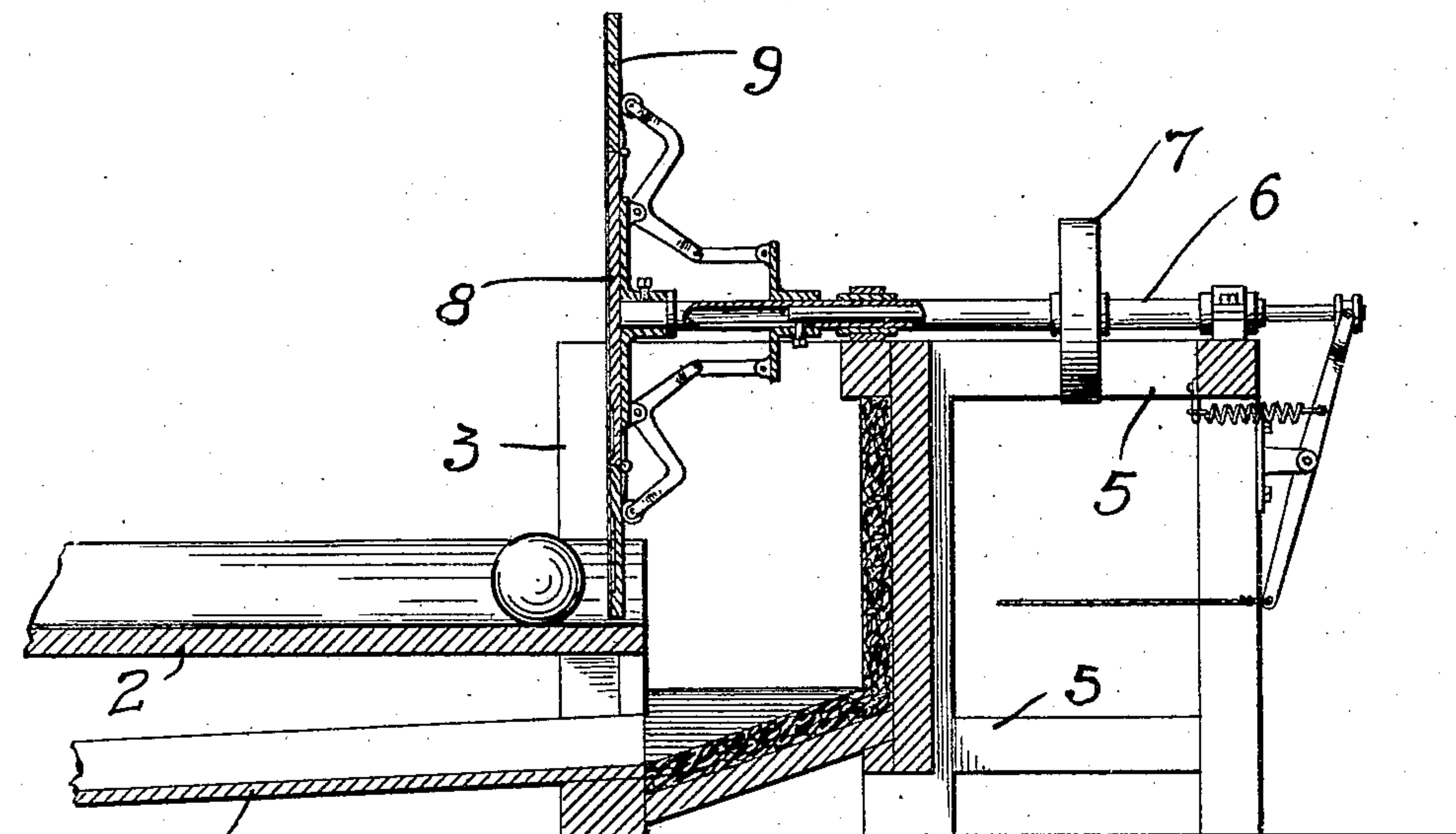


No. 855,455.

PATENTED JUNE 4, 1907.

F. M. GREER.
GAME.

APPLICATION FILED SEPT. 13, 1906.



WITNESSES
A. M. Walstrom
J. B. E. v. a.

INVENTOR
FRANKLIN M. GREER
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UNITED STATES PATENT OFFICE.

FRANKLIN M. GREER, OF WINONA, MINNESOTA.

GAME.

No. 855,455.

Specification of Letters Patent.

Patented June 4, 1907.

Application filed September 13, 1906. Serial No. 334,373.

To all whom it may concern:

Be it known that I, FRANKLIN M. GREER, of Winona, Winona county, Minnesota, have invented certain new and useful Improvements in Games, of which the following is a specification.

This invention relates to a game apparatus of the bowling alley type, and particularly to improvements in the game apparatus described and claimed in my application for patent filed February 6, 1906, Serial No. 299,804.

The objects of the present invention are to provide the numbers on the paddles in such manner that the numbers are always right-side up in any position of the wheel and to provide an additional series of numbers located upon the wheel in position to show the number of any paddle that has been moved by a ball.

Other objects of the invention will appear from the following detailed description, taken in connection with the accompanying drawings, in which

Figure 1 is a longitudinal, vertical section of a game apparatus embodying my invention. Fig. 2 is a section of the alley and a front elevation of the rotatable wheel. Fig. 3 is a detailed section of the rotatable wheel.

In all of the drawings, 2 represents the floor or way of the apparatus, 3 a suitable supporting frame and 4 the gutter or trough in which the balls return to the players.

5 represents a suitable frame, in which is mounted the horizontal shaft 6 having the pulley 7. The shaft 6 is hollow and mounted thereon at one end is a wheel 8 having a series of targets 9 hinged thereon and adapted to swing backward out of the plane of the wheel. These parts are all substantially as shown and described in my said former application. The wheel is also provided with springs connected with the targets and holding them in either position. The device is also provided with means for resetting the targets after each player has made his score.

In the device shown in my former patent, the numbers were placed directly upon the targets so that when each target reached the upper side of the wheel, in the rotation thereof, said number was upside down and was not easy to read. I now apply the numbers to the targets so that each number is always in an upright position. For this purpose, I provide in the front of each target a circular recess, in which is arranged a disk 15

mounted upon a pivot 16 with one side of the disk made thicker and heavier than the other. Each of these disks is arranged to turn freely upon its pivotal support and thereby the heavy portion of the disk always remains at the bottom. The numbers are marked directly upon the faces of these disks and as the wheel rotates the numbers are always in an upright position. I also provide, in the main body of the wheel, directly inside of the inner edge of each target, another recess, in which is placed a disk 17 mounted upon a pivot pin 18 and this disk is also made heavier at one side so that it retains the same position at all points in the rotation of the wheel. Numbers are placed upon these disks, corresponding to the numbers upon the adjacent targets. Each target is also provided with a shield 19, preferably formed of sheet metal and having a circular opening of slightly less diameter than the disk 15. This shield protects the face of the target and covers the edge of each disk 15. These shields also project radially toward the center of the wheel a sufficient distance to cover the disks 17 when the targets are in normal position. When the targets are moved backward by the impact of the balls and the action of the springs so that they stand in position at right angles to the face of the wheel, the disks 17 are uncovered and the number upon each of said uncovered disks 17 shows to the player the number of the adjacent target that has been moved. By this means, the numbers of the targets and the numbers on the wheel are always maintained in upright position and the numbers on the wheel are exposed when the corresponding targets are moved.

I claim as my invention:

1. A game apparatus comprising a suitable alley, a wheel operating transversely with respect thereto, a series of numbered targets carried by said wheel and a corresponding series of numbers provided on said wheel in position to be exposed by the movement of said targets.

2. A game apparatus comprising an alley, a wheel operating transversely with respect thereto, a series of targets carried by said wheel, each of said targets being provided with a number, and means for maintaining the numbers in upright position as said wheel is rotated.

3. A game apparatus comprising an alley, a wheel operating transversely with respect thereto, a series of targets carried by said

wheel, a pivoted disk mounted upon each of said targets with one portion of the disk weighted, and numbers provided on said disks.

- 5 4. A game apparatus comprising an alley, a wheel operating transversely with respect thereto, targets carried by said wheel, a numbered disk pivotally supported upon each

of said targets and provided with means for retaining it in an upright position. 10

In witness whereof, I have hereunto set my hand this fourth day of September 1906.

FRANKLIN M. GREER.

Witnesses:

F. M. WADSWORTH,

W. J. POTTER.