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PARKING METER

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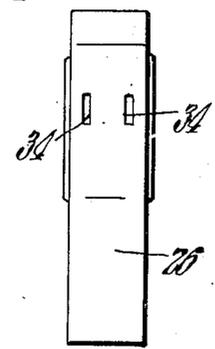
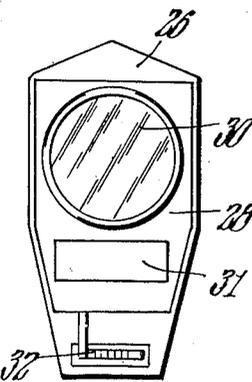
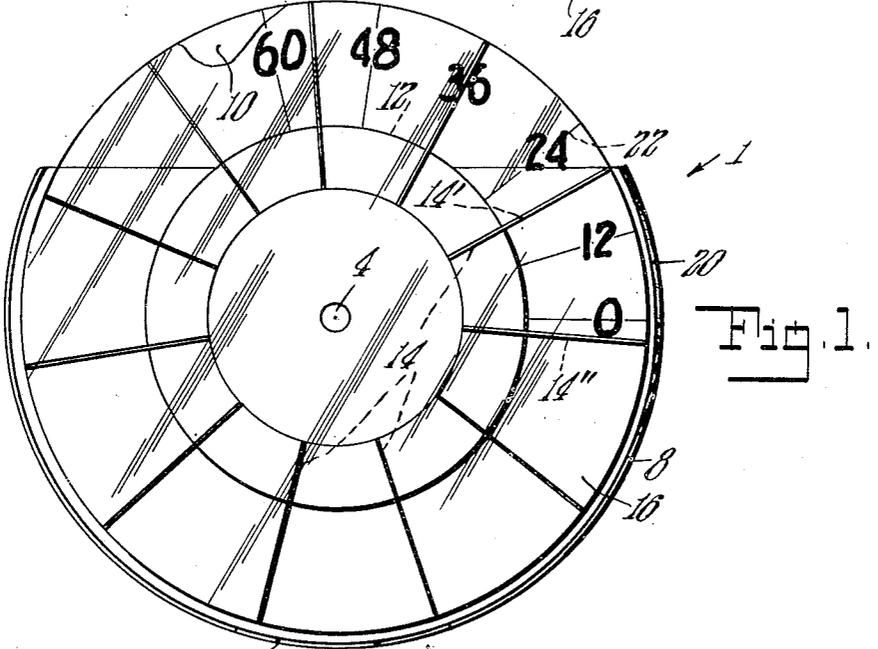
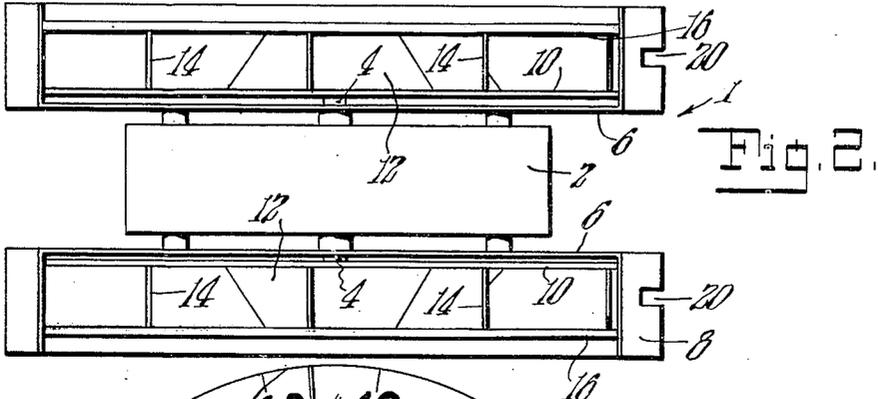


Fig. 3.

Fig. 4.

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PARKING METER

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5 Claims. (Cl. 161—15)

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This invention relates to improvements in parking meters.

The principal objects of the invention are directed to the provision of parking meter apparatus which is adapted for timing the parking of vehicles in adjacent parking areas and is accomplished by a meter having dual timing means on opposite sides which means are visible to enforcement authorities from either side of the apparatus.

All of the above objects I accomplish by means of such structure and relative arrangements of parts thereof, as will fully appear by a perusal of the description below and by various specific features which will be hereinafter set forth.

To the above cited and other ends and with the foregoing and various other novel features and advantages and other objects of my invention as will become more readily apparent as the description proceeds, my invention consists in certain novel features of construction and in the combination and arrangement of parts as will be hereinafter more particularly pointed out in the claims hereunto annexed and more fully described and referred to in connection with the accompanying drawings wherein:

Figs. 1 and 2 are front elevational and plan views of timing means embodying the novel features of the invention; and

Figs. 3 and 4 are front and side elevational views showing the housing for the timing means.

Referring now to the drawings more in detail, the invention will be fully described.

The timing means of the parking meter 1 has a clock mechanism represented by 2 which will be of any well known form that is wound up periodically for continuous operation. The mechanism may be arranged for say eight day operation.

A shaft 4 represents the output of the clock mechanism which may be arranged to rotate the shaft through one revolution during a predetermined period of time. For instance, the shaft 4 may rotate through one revolution in three hours.

Plates 6 are secured to the clock mechanism on opposite sides thereof by spacers and said plates carry peripheral flanges 8.

Circular inner discs 10 preferably formed from transparent material are secured in some suitable manner to outer faces of the plates 6.

Hubs 12 are carried by shafts 4 and have vanes 14 fixed thereto which extend radially therefrom.

Outer discs 16 are secured to outer ends of the hubs 12 and outer radial edges of the vanes 14 so as to rotate therewith. Said discs 16 will be

formed from transparent material. The hub, vanes and outer disc 16 form a coin carrier or rotor, so that there are similar rotors on opposite sides of the clock mechanism.

For purposes of description it will be assumed that the shaft 4 is rotated continuously in a counter-clockwise direction.

The hubs 12 frictionally engage the shafts 4 so that said hubs 12, vanes 14 and outer discs 16 are rotated thereby, but the rotors may be moved relative to the shaft as will appear.

The flanges 8 are provided with entrance slots 20 for coins and should a coin inserted in a slot 20 engage an outer edge of one of the vanes, pressure on the end of the vane by the coin will move the rotor up or down, it being frictionally engaged with shaft 4, so that the coin may enter between adjacent vanes 14.

The discs 10 carry division lines 22 and indicia which, as shown, are "0," "12," "24," "36," "48" and "60."

With a coin between adjacent vanes and the rotor being rotated counter-clockwise, the elapsed time or the parking time expires when the upper one or leading vane 14 of adjacent vanes arrives at a line 22.

As an example, the parking time for a coin of certain denomination may be sixty minutes so that with a coin between vanes 14' and 14'', the parking time expires when the leading vane 14' arrives at the line 22 for numeral "60."

The discs 6 may have any arrangement of lines desired as well as any desired time designations and the vanes may be arranged in any desired manner, all depending on regulations controlling the parking time with reference to the rent therefor.

As the rotors are continuously rotated, the coins between adjacent vanes thereof arrive at a coin discharge slot 24 in the lower portion of the flanges 8 through which they are discharged.

The mechanism described is supported in a housing 26 which is provided with a removable plate 28. Said plate 28 and an opposite side of the housing are provided with windows 30 through which the sides or faces of the mechanism is visible.

The plate 26 is removable from the housing for access to the clock mechanism for removal of coins in the housing as well as for winding the time mechanism. Lock means indicated by 32 locks the plate in place on the housing.

Coin slots 34 in a side of the housing coincide with the slots 20 of the mechanism of Figs. 1 and 2 so that coins may be inserted between

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adjacent vanes of the rotors and the housing may take any desired form and be supported by a post or the like located between adjacent parking areas so that parking at either side of the parking meter may be timed.

The vanes of the rotors and indicia of the members 10 may be arranged so that various periods of elapsed time may be indicated with reference to a coin in the pockets formed by the vanes of the rotors.

Instructions may be applied to spaces or plates 31 on opposite faces of the housing.

The discs 10 and the discs 16 being transparent as they are, the position of coins in the pockets of either rotor will be visible through the windows of the housing from either side thereof so that looking at either window it is possible to determine whether a vehicle in either parking space is overparked.

The invention may be embodied in other specific forms without departing from the essential characteristics thereof. Hence, the present embodiments are therefore to be considered in all respects merely as being illustrative and not as being restrictive, the scope of the invention being indicated by the appended claims rather than by the foregoing description, and all modifications and variations as fall within the meaning and purview and range of equivalency of the appended claims are therefore intended to be embraced therein.

What it is desired to claim and secure by Letters Patent of the United States is:

1. Parking meter apparatus having dual time indicating means on opposite sides which are visible from said sides comprising in combination, clock mechanism and inner vertically disposed plates secured to opposite sides thereof, said clock mechanism having a rotatable shaft provided with end portions extending on a horizontal axis from opposite sides thereof through said inner plates, inner transparent discs adjacent and secured to said inner plates, rotors outwardly of said inner discs each including secured together hubs frictionally engaging said end portions of said shafts and outer transparent discs on outer ends of said hubs and circumferentially spaced radially extending vanes, said rotors cooperating with said inner discs to provide a series of coin pockets, and upper portions of said inner discs provided with time designations, upper edges of said plates being disposed below the planes of upper edges of said inner and outer discs whereby said time designations are exposed to view from opposite sides of the apparatus.

2. Parking meter apparatus having dual time indicating means on opposite sides which are visible from said sides comprising in combination, clock mechanism and inner vertically disposed plates secured to opposite sides thereof, said clock mechanism having a rotatable shaft provided with end portions extending on a horizontal axis from opposite sides thereof through said inner plates, inner transparent discs adjacent and secured to said inner plates, rotors outwardly of said inner discs each including secured together hubs frictionally engaging said end portions of said shafts and outer transparent discs on outer ends of said hubs and circumferentially spaced radially extending vanes, said rotors cooperating with said inner discs to provide a series of coin pockets, and upper portions of said inner discs provided with time designations, upper edges of said plates being disposed below the planes of upper edges of said inner and outer discs whereby

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said time designations are exposed to view from opposite sides of the apparatus, said plates provided with flanges extending outwardly around said inner and outer discs closing outer ends of said coin pockets below upper edges thereof, said flanges having circumferentially spaced coin receiving and discharge openings therethrough.

3. Parking meter apparatus having dual time indicating means on opposite sides which are visible from said sides comprising in combination, clock mechanism and inner vertically disposed plates secured to opposite sides thereof, said clock mechanism having a rotatable shaft provided with end portions extending on a horizontal axis from opposite sides thereof through said inner plates, inner transparent discs adjacent and secured to said inner plates, rotors outwardly of said inner discs each including secured together hubs frictionally engaging said end portions of said shafts and outer transparent discs on outer ends of said hubs and circumferentially spaced radially extending vanes, said rotors cooperating with said inner discs to provide a series of coin pockets, and upper portions of said inner discs provided with time designations, upper edges of said plates being disposed below the planes of upper edges of said inner and outer discs whereby said time designations are exposed to view from opposite sides of the apparatus, said plates provided with flanges extending outwardly around said inner and outer discs closing outer ends of said coin pockets below upper edges thereof, said flanges having circumferentially spaced coin receiving and discharge openings therethrough, and a casing supporting and enclosing said apparatus having transparent windows on opposite sides thereof in register with said discs.

4. Parking meter apparatus having time indicating means on opposite sides thereof, clock mechanism having inner vertically disposed plate members secured to opposite sides thereof and time indications circumferentially spaced on outer sides thereof, said clock mechanism including a rotatable shaft disposed on a horizontal axis and having end extensions extending outwardly from opposite sides thereof and through and outwardly of said plate members, rotors on said end extensions outwardly of said plate members including hubs frictionally engaging said shaft extensions carrying outer transparent discs on outer sides of said vanes and circumferentially spaced vanes extending radially from said hubs cooperating with said discs to provide circumferentially spaced coin pockets, and flange means relative to which the peripheries of said discs and outer ends of said vanes are rotatable closing the spaces between certain of said vanes and being provided with coin slots for insertion of coins between said vanes.

5. Parking meter apparatus having time indicating means on opposite sides thereof, clock mechanism having inner vertically disposed plate members secured to opposite sides thereof and time indications circumferentially spaced on outer sides thereof, said clock mechanism including a rotatable shaft disposed on a horizontal axis and having end extensions extending outwardly from opposite sides thereof and through and outwardly of said plate members, rotors on said end extensions outwardly of said plate members including hubs frictionally engaging said shaft extensions carrying outer transparent discs on outer sides of said vanes and circumferentially spaced vanes extending radially from said hubs cooperating with said discs to provide circumferentially spaced

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coin pockets, and flange means relative to which the peripheries of said discs and outer ends of said vanes are rotatable closing the spaces between certain of said vanes and being provided with coin slots for insertion of coins between said vanes, and a casing supporting and closing said apparatus having transparent windows on opposite sides in register with said outer discs.

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