March 29, 1932. G. F. FISCHER 1,851,245

RECORDING DEVICE FOR AUTOMOBILES

Filed Sept. 26, 1929 2 Sheets-Sheet 1

Fig. 1.

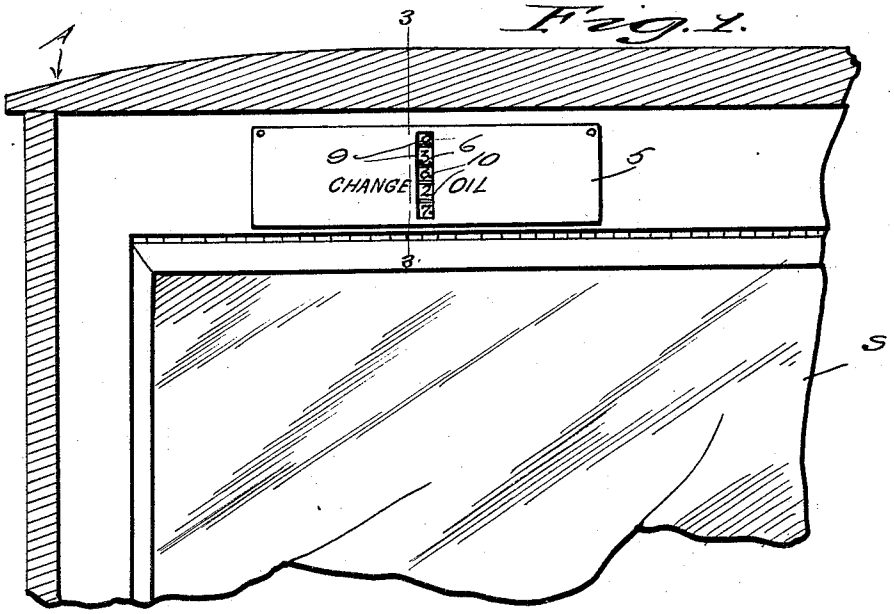


Fig. 2.

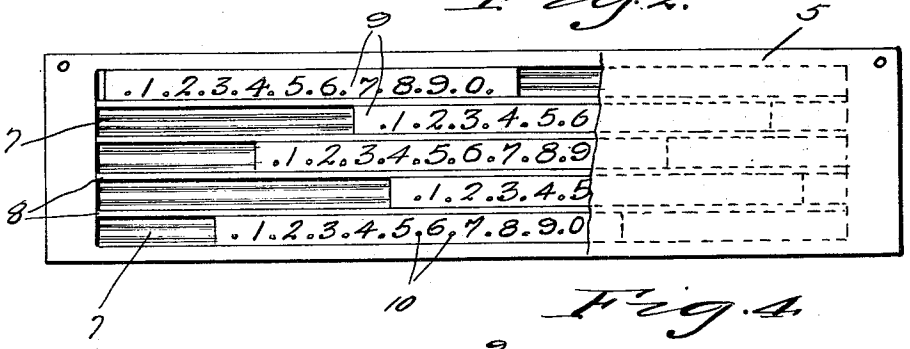
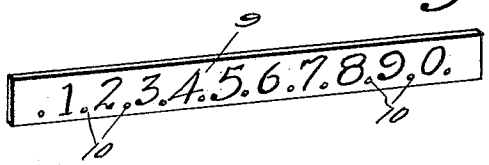


Fig. 4.



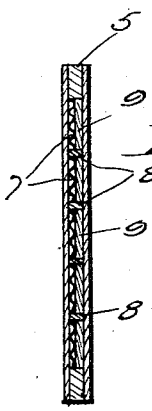


Fig. 3.

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RECORDING DEVICE FOR AUTOMOBILES

Filed Sept. 26, 1929 2 Sheets-Sheet 2

Fig. 5.

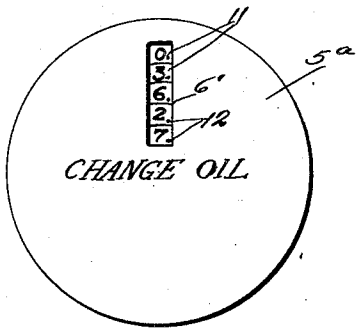


Fig. 6.

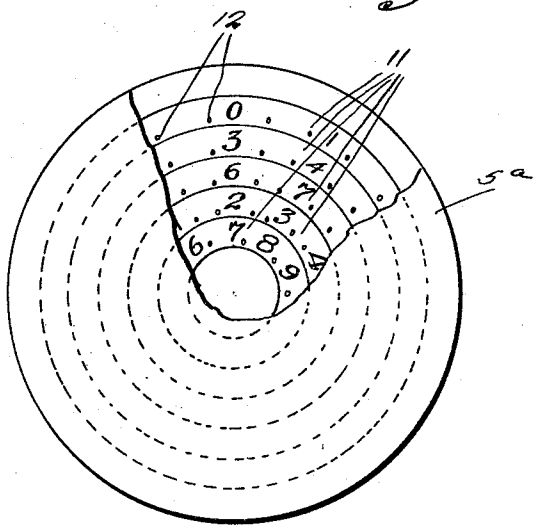


Fig. 7.

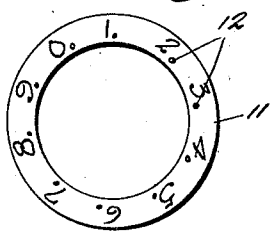


Fig. 8.

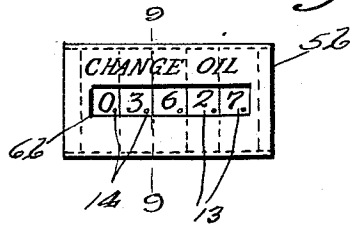


Fig. 10.

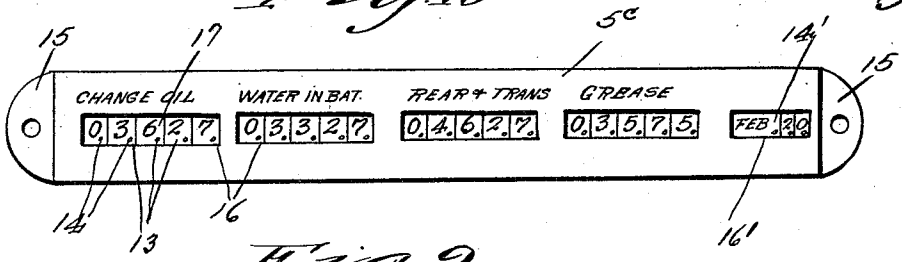


Fig. 11.

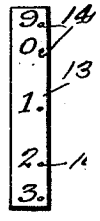
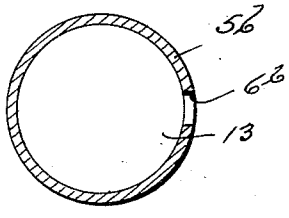


Fig. 9.



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Patented Mar. 29, 1932 1,851,245

UNITED STATES PATENT OFFICE

GEORGE FERDINAND FISCHER, OF PERRYVILLE, MISSOURI

RECORDING DEVICE FOR AUTOMOBILES

Application filed September 26, 1929. Serial No. 395,326.

This invention relates broadly to recording devices and has more particular reference to a recording device for use on self-propelled vehicles, especially automobiles, for indicating when the automobile or vehicle is to be again furnished with fuel, oil and the like.

The primary object of this invention is, therefore, to provide a simple and inexpensive recording device for automobiles whereby the operator of the vehicle at the time fuel, oil or the like has been furnished to the vehicle he may record just what period of time or distance the vehicle will be again in need of a change of oil or the like.

Another very important object of the invention is to provide a recording device of the character above mentioned, which consists of but comparatively few parts, being simple in construction, and may be readily and easily attached to the dash board, the frame work of the vehicle or at any other convenient place readily discernible by the operator.

Other objects and advantages of the invention will be apparent from a study of the following description, taken in connection with the accompanying drawings, wherein:—

Figure 1 is a fragmentary detail sectional view through the front part of an automobile, the same being shown with one embodiment of my invention comprised therein.

Figure 2 is a plan view of one embodiment of my invention, the same having parts broken away to better illustrate the construction thereof.

Figure 3 is a vertical transverse sectional view taken substantially on line 3—3 of Figure 1.

Figure 4 is a perspective view of one of the slide plates.

Figure 5 is a front elevation of a modified form of the invention.

Figure 6 is an enlarged view of the same, parts being broken away to fully illustrate the construction thereof.

Figure 7 is a plan view of one of the rings.

Figure 8 is a front elevation of still another form of my invention.

Figure 9 is a vertical transverse sectional view taken substantially on the line 9—9 of Figure 8.

Figure 10 is a front elevation of still another form of the invention.

Figure 11 is a front elevation of another form of ring adapted to be used in that form of the invention shown in Figure 10 and Figure 8.

With reference more in detail to the drawings, and attention being especially directed to Figures 1 to 4, inclusive, wherein is shown the preferred embodiment of my invention, it will be seen that the same comprises an elongated casing or housing 5, which housing is in the nature of a shell being closed at the top, bottom, end front and rear thereof, the front walls of the casing intermediate the ends thereof being provided with a transverse vertical slot 6. Within the casing 5, and along the inner face of the rear wall of the casing, for the full length thereof is a corrugated lining 7. Also, arranged within the casing 5 and extending from one end thereof to the other are longitudinally spaced parallel strips or guide members 8. The strips or guide members provide tracks between which are slidably mounted relatively narrow elongated slide plates 9. These plates 9 may be made of cardboard, thin metal or any other suitable material, and the length of the strips 9 is substantially equal to the distance between one end of the casing 5 and the slot 6 in the front wall of the casing. On the outer face of each of the slide plates 9 are arranged longitudinally spaced numerals from 1 to 9 with a naught following the 9. Adjacent the lower longitudinal edge of the slide plates 9, the said plates are provided between the numerals with relatively small openings 10, the purpose of which will hereinafter readily present itself.

On the front face of the casing 5, and on one side of the slot 6 may be the word "Change" while on the other side of the slot may be the word "Oil". However, while I have shown the device as having these words thereon, it is to be understood other such words as "Put water in battery" or the like may be employed.

In actual practice the casing 5 may be se-

cured above the upper edge of the windshield S of an automobile A so as to be within the sight of the operator of the vehicle.

The operation of the device is as follows:— As is well known the oil in an automobile is changed about every five hundred miles. Consequently, when using this device the operator when changing the oil will note the number of miles registered on this speedometer, and know that another five hundred miles it will be necessary to again change the oil. Accordingly, by inserting a pin to the slot 6 and engaging the end of the pin in one of the openings 10 of the slide plates 9 he will slide each plate longitudinally of the casing to bring a certain number on each plate in registry with the slot to be observed therethrough. The total number which will then be observed through the slot 6 will be equal to or the sum of the total mileage registered on the speedometer plus five hundred so that if for example the total mileage registered by the speedometer is three thousand one hundred and twenty-seven (3127) each of the slide plates 9 will be moved, so that the top or unit slide plate 9 will be moved to dispose the naught at the slot 6, and the remaining slide plates likewise moved to a position as to bring the numerals 3, 1, 2, 7, respectively, on each of the plates in registery with the slot 6 so that the numbers visible through the slot 6 will be 3, 6, 2, and 7 or 500 plus 3127. Manifestly then, the operator will know that when the speedometer registers the same distance as indicated to agree with the numbers disclosed through the slot 6 that a change of oil must be made.

The corrugated inner lining 7 contacting with one face of each of the slide plates 9 will have a tendency to maintain the plates in a set position against casual displacement.

In that embodiment of my invention illustrated in Figures 5 to 7, inclusive, I provide a relatively thin circular casing 5*a*, the front wall of which is provided with a vertical slot 6′ terminating inwardly from the periphery of the casing at one end of the slot, the other end of the slot terminating in spaced relation to the center point of the casing. Arranged within the casing as shown to advantage in Figure 6 are provided a plurality of rings 11, which rings 11 gradually increase in diameter from the center to the periphery of the casing 5*a*, said rings fitting one within the other, and adapted to be individually rotated about one another. On one face thereof each of the rings 11 have arranged thereon a series of numbers ranging from naught to nine arranged in circumferential spaced relation, the rings being further provided adjacent each of the numbers with a relatively small openings 12, whereby a pin inserted through the slot 6′ and into one of the openings 12 the rings may be individually rotated for bringing any one of the desired numbers into registry with the slot 6′ to be viewed therethrough. The use and operation of this embodiment of my invention is substantially the same as that embodiment hereinbefore set forth in detail.

In Figure 8 I provide a relatively short cylindrical casing 5*b*, and on one wall thereof is provided an elongated longitudinally extending slot 6*b*. Arranged within the casing 5*b* is a plurality of rings or annular members 13 as shown to advantage in Figure 8. On the outer periphery of each of the rings 13 the same is provided with a series of numbers arranged thereon, the numbers being from naught to nine, while adjacent each of the numbers the said rings are provided with pin receiving openings 14. The rings are adapted to be individually rotated within the cylindrical casing for bringing any predetermined number thereon in registry with the slot 6*b* all in the same manner and for the purpose as indicated in regard to the other forms of the invention previously described.

In that form of my invention indicated to advantage in Figure 10, I provide an elongated hollow cylindrical casing provided at opposite ends thereof with attaching ears or flanges, the casing being designated by the reference character 5*c* and the apertured attaching ears by the reference character 6*c*. On the front wall thereof, the casing 5*c* is provided with a plurality of elongated slots 16, which slots 16 are arranged thereon in longitudinal spaced alignment. Arranged within the casing 5*c* are a plurality of series of rings similar to the rings 13, the series of rings being designated generally by the reference character 17. Piston rings are in every detail an exact replica of the rings 13, a detail description thereof being unnecessary. In the casing 5*c* the series of rings 17 are of sufficient number as to have series of rings to each of the slots 16. Over one end slot 16 there may be printed on the front wall of the casing the words "Change oil", over the next adjacent slot "Water in bat.", also over another of the slots may be the words "Rear and trans." meaning the rear end and transmission, and the other end slot 16 the word "Grease". A slot 16′ forming the extremed end slots is formed in the front wall of the casing and in longitudinal spaced alignment with the slot 16. Within the casing 5*c* opposite to the slot 16′ I provide a ring 14′, on the outer periphery of which ring will be printed or otherwise formed, preferably in abbreviated form the name of the month of the year. In connection with this ring 14′ I would utilize two of such rings 13 for indicating the day of the month as is illustrated to advantage in Figure 10.

Manifestly with this last form of my invention, a check up may be made on the oil, battery, rear end and transmission, and the greasing of the various parts of the automo-

bile. Of course, the manipulation of the individual rings of the several series would be the same as described in regard to my other forms of invention, and this form of the invention will, of course, be also used in connection with the speedometer of the automobile.

Manifestly, any form of suitable attaching means may be utilized for supporting those forms of my invention shown more particularly in Figures 5 and 8, whereupon the device may be readily used by the operator of the automobile.

It is believed that from the foregoing description, a clear understanding of the construction, operation, utility and advantages of an invention of this nature will be had without a more detail description.

Even though I have herein shown and described the preferred embodiment of my invention, it is, of course, to be clearly understood that I do not wish to limit myself to the specific details of construction, the material views, size, shape and similar details as fall within the spirit of the invention as herein described, or the scope of the appended claim.

Having thus described my invention, what I claim as new is:—

A recording device for automobiles, comprising a casing adapted to be carried in horizontal position by the instrument board of an automobile and having in its front wall at an intermediate point in its length a vertically extending sight opening and also having on its back wall a plurality of spaced longitudinally extending flanges at right angles to said sight opening, the spaces between said flanges having backs with longitudinally disposed corrugations, and longitudinally disposed slide plates, of a less length than the interior of the casing, disposed and movable endwise between said flanges and at right angles to said sight opening and frictionally contacting with said longitudinal corrugations and snugly held thereagainst by said front wall, and bearing numerals, and having at intervals of their length spaced minute apertures for the engagement of an adjusting pin introduced through said sight opening.

In testimony whereof I affix my signature.

GEORGE FERDINAND FISCHER.