

W. J. FACKLER.
OIL SIGHT FEED.
APPLICATION FILED SEPT. 25, 1919.

1,387,248.

Patented Aug. 9, 1921.

Fig. 1.

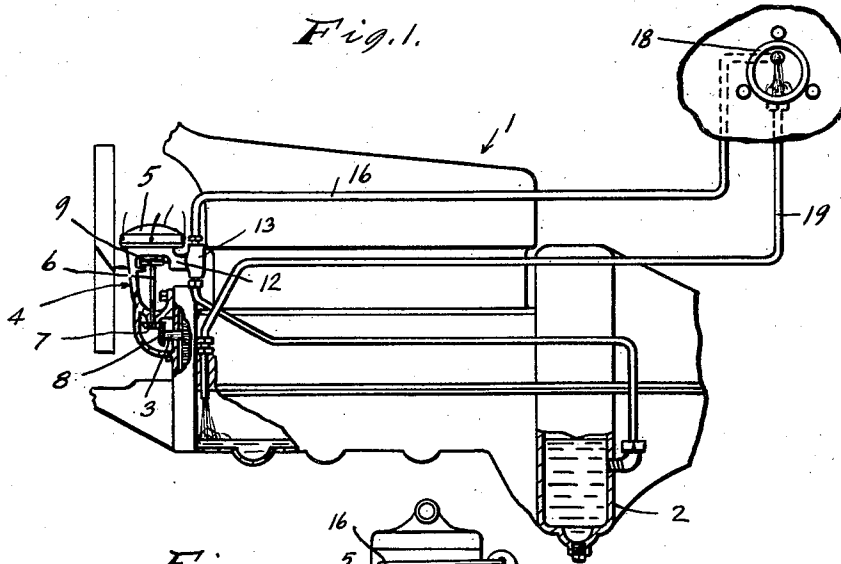


Fig. 2.

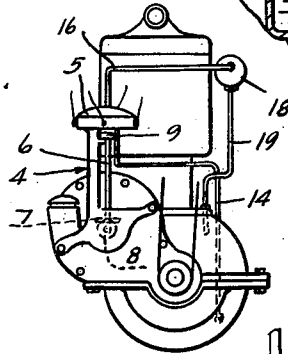


Fig. 3.

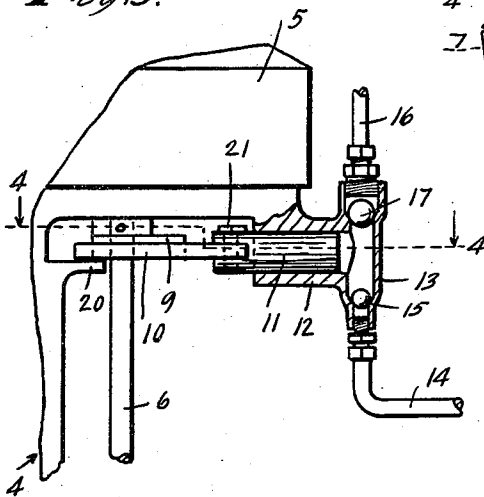


Fig. 5.

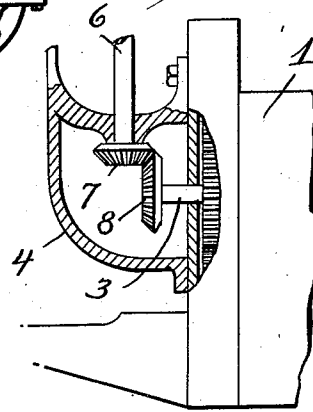
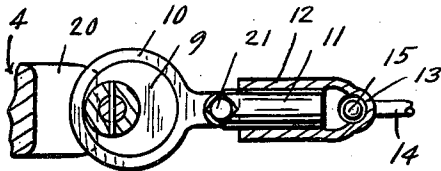


Fig. 4.



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OIL SIGHT-FEED.

1,387,248.

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To all whom it may concern:

Be it known that I, WESLEY J. FACKLER, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Oil Sight-Feeds, of which the following is a specification.

The objects of my invention are to provide an oil pump attachment for a motor vehicle of such a type and design as a Ford automobile; a further object being to arrange a part of the mechanism so that my pump may be applied giving not only a sight feed but a more positive feed of oil to a car of the make named than is had in the mechanism installed for that purpose by the makers.

My invention consists of the novel features herein shown, described and claimed.

Figure 1 is a side elevation showing the device as applied to the engine of the vehicle.

Fig. 2 is a front elevation showing a rearrangement of the timing device to admit the application of the pump.

Fig. 3 is an enlarged view in side elevation and partly in section showing the pump with its suction and discharge means.

Fig. 4 is a top view of the plunger, cylinder and eccentric as shown in elevation in Fig. 3 and on the line 4-4.

Fig. 5 is a detail section illustrating the driving connections from the continuously rotating shaft of the engine to the pump operating shaft of my improved device.

More specifically, 1 indicates the engine of a Ford automobile having a fly wheel case 2. At the front end of the engine is a shaft 3 which, operating through reducing gears, usually operates a timing mechanism directly. 4 is an accessory bracket attached to the engine frame where is usually attached the timing mechanism.

On the top of the bracket 4 is remounted the timing mechanism 5 being operated by the rotatably mounted spindle 6 on the lower end of which is fixed the beveled gear 7. The beveled gear 7 meshes with a companion gear 8 mounted on the shaft 3, in the place of the usual timing arm.

Mounted on the spindle 6 is an eccentric 9 carrying a strap 10 which is pivotally connected, by a pin 21, to a plunger 11. 12 is a cylinder in which the plunger operates having a cross extension 13. The extension

13 communicates with a suction tube 14 carrying the suction valve 15, and with the discharge tube 16 carrying the discharge valve 17. The suction tube 14 communicates with the fly wheel case 2 while the discharge tube 16 passes up to the dash board of the vehicle terminating in a sight feed means 18. From the sight feed means a return tube 19 communicates with the front end of the crank case of the engine 1 which in a car of the make named is opened throughout to the fly wheel case 2.

The inwardly projecting finger 20 prevents the eccentric strap 10 from dropping down out of the alinement.

In the operation of the device, it being properly installed on the engine and car and the timer replaced in the new working position as shown; when the engine is running the eccentric 9 is caused to rotate with the spindle 6 the eccentric strap 10 therefore causing a reciprocation of the plunger 11 in the cylinder 12.

When the plunger 11 makes an outward stroke a partial vacuum is formed in the extension 13 and suction tube 14 lifting the valve 15 and drawing in oil from the fly wheel case 2. As the plunger makes an inward stroke the oil thus drawn from the fly wheel case is compressed closing the valve 15 and opening the valve 17 through which the oil passes into the tube 16.

The flow of oil thus established passes from the end of the tube 16 and becomes visible behind a glass of the sight feed means 18 from which means it flows into the forward end of the crank case of the engine through the tube 19 thence again into the reservoir comprising the fly wheel case, thus establishing a positive voluminous sight feed oiling means for the engine such as is not normally installed on a car of the make named by the builder.

The exact means shown by which my invention is carried out may be altered somewhat without departing from the spirit thereof, as claimed.

I claim:

1. In combination with a Ford engine construction an oil sight feed comprising an accessory bracket adapted to be mounted on the engine in the place of the usual timing mechanism having a crown adapted to receive the timing mechanism, a spindle rotatably mounted in the bracket for operating the timing mechanism having a beveled

gear at its lower end, a companion gear meshing with the first named gear fixed on the timing shaft in the position of the usual timing arm, an oil pump positioned on the bracket the suction means of which communicates with the fly wheel case of the engine, a discharge conduit for the pump communicating with an oil sight feed means, an oil return conduit communicating with the forward end of the crank case of the engine and means mounted on the spindle for operating the pump.

2. In combination with a Ford engine construction an oil sight feed comprising an accessory bracket adapted to be mounted on the engine in the place of the usual timing mechanism having a crown adapted to receive the timing mechanism, a spindle rotatably mounted in the bracket for operating the timing mechanism having a beveled

gear at its lower end, a companion gear meshing with the first named gear fixed on the timing shaft in the usual position of the timing arm, an oil pump cylinder positioned on the bracket having a plunger, an eccentric mounted on the spindle having a strap pivotally connected with the plunger, a suction conduit communicating between the cylinder and the fly wheel case of the engine carrying a suction valve, a discharge conduit for the cylinder having a discharging valve and communicating with an oil sight feed means, and the oil sight feed means positioned in view of a driver having a return conduit communicating with the forward end of the engine crank case.

In testimony whereof I have signed my name to this specification.

W. J. FACKLER.