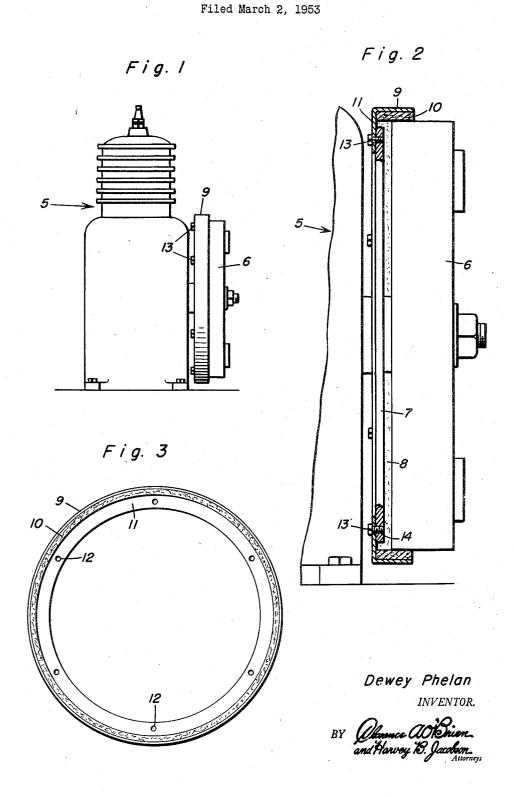
FLYWHEEL MAGNETO DUST SHIELD



UNITED STATES PATENT OFFICE

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FLYWHEEL MAGNETO DUST SHIELD

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1 Claim. (Cl. 310-153)

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The present invention relates generally to a new and useful improvement in air cooled internal combustion engines of the type comprising a magneto flywheel which is cooperable with and spaced from a stator plate. The primary object of the invention is to provide, in a manner as hereinafter set forth, novel means for closing the usual space between the stator plate and the flywheel to positively exclude dust, dirt, etc., from the magneto.

Another very important object of the invention is to provide a magneto shield of the aforementioned character which may be expeditiously installed on the stator plate without the necestherein.

Other objects of the invention are to provide a magneto shield of the character described which will be comparatively simple in construction, strong, durable, highly efficient and reliable in 20 use, compact and which may be manufactured at low cost.

All of the foregoing and still further objects and advantages of the invention will become apparent from a study of the following specifica- 25 tion, taken in connection with the accompanying drawing wherein like characters of reference designate corresponding parts throughout the several views, and wherein:

Figure 1 is a view in side elevation, showing an 30 air cooled gasoline engine equipped with a dust shield in accordance with the present invention;

Figure 2 is an enlarged view in side elevation thereof, portions being broken away in section; and

Figure 3 is a view in front elevation of the shield.

Referring now to the drawing in detail, it will be seen that reference numeral 5 designates generally an air cooled internal combustion engine. 40 The engine 5 comprises a conventional magneto flywheel 6 which is cooperable with the usual stator plate 7. The flywheel 6 is spaced from the stator plate 7, as at 8.

The embodiment of the present invention 45 which has been illustrated comprises a cylindrical ring or band 9 of metal or other suitable material which is adapted to encircle the rear end portion of the flywheel 6 and the stator plate 7 in spaced. concentric relation thereto and in a manner to bridge the gap or space 8 therebetween. To substantially close and seal the space between the ring 9 and the flywheel 6, a felt liner 10 may be adhesively or otherwise suitably secured in said

Formed integrally with one end of the ring 9 is an internal flange II. The flange II abuts the

back of the stator plate 1 and is firmly secured thereto. Toward this end, the flange !! has formed therein spaced apertures 12 which accommodate bolts 13. Threaded openings 14 in the stator plate 7 accommodate the bolts 13.

It is thought that the manner in which the device functions will be readily apparent from a consideration of the foregoing. Briefly, the cylindrical ring 9, in conjunction with the mounting flange II, closes the gap or space 8 between the stator plate 7 and the flywheel 6 thus excluding dirt, dust and other foreign matter from the magneto. The liner 10 of felt or other suitable material substantially seals the space between the sity of making material structural alterations 15 ring 9 and the flywheel 6. In certain instances where it is not needed, the liner 10 may be dispensed with. It is to be noted that the construction and arrangement is such that the shield may be expeditiously installed for use on a conventional engine, it being only necessary to provide the apertures 14 in the stator plate 7.

It is believed that the many advantages of a dust shield constructed in accordance with the present invention will be readily understood and although a preferred embodiment of the device is as illustrated and described, it is to be understood that changes in the details of construction may be resorted to which will fall within the scope of the invention as claimed.

What is claimed as new is as follows:

As a new article of manufacture, a dust shield attachment for a magneto of the type including a flywheel and a spaced stator plate, said attachment comprising: a cylindrical ring for encircling the stator plate and the flywheel in spaced, concentric relation thereto and bridging the space therebetween, an internal flange integral with one end of said ring for overlying the marginal portion of the stator plate in face-abutting engagement with the outer side thereof, means for detachably securing said flange to the stator plate, and a lining in the ring for closing the space between said ring and the flywheel.

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