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HYDRAULIC DRIVEN WASHING APPARATUS

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Fig.1.

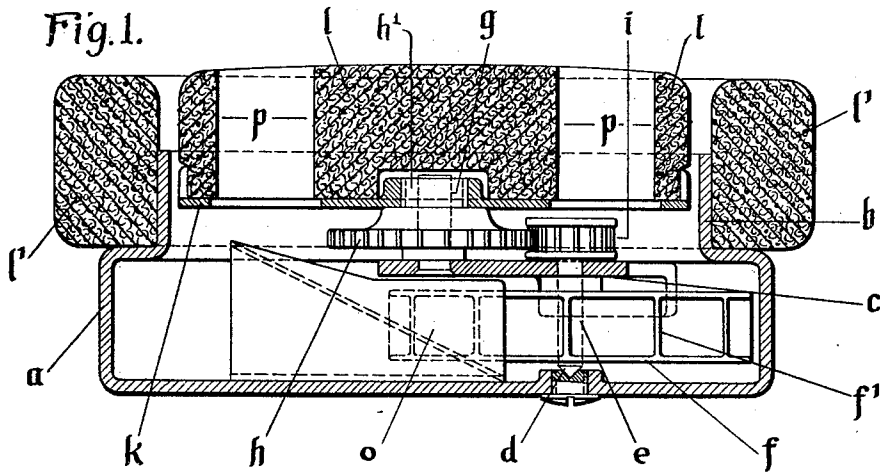
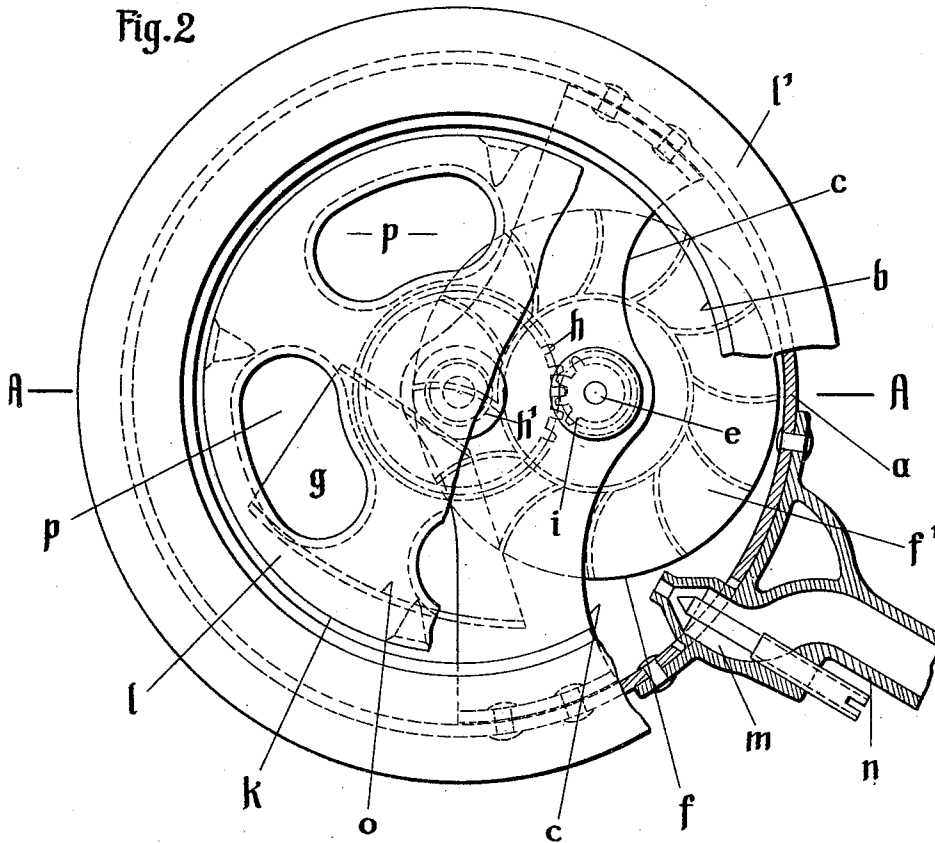


Fig.2



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HYDRAULIC DRIVEN WASHING APPARATUS

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Cleaning apparatus for cars are known, in which a sponge acting with its front surface is rotated by a hydraulic engine.

The known apparatus present the disadvantage that, the rotated sponge, owing to the centrifugal force produced, throws off to all sides the water fed thereto thereby wetting and dirtying the user of the apparatus, and surroundings near the object which is being cleaned.

The device according to the invention differs from the known arrangements of this kind in that the sponge, driven by the hydraulic engine, is surrounded by an annular sponge, rigidly connected with the casing of the driving engine. Further an inclined trough is provided in the casing, serving for guiding the driving water from the blades of the water wheel of the engine to the openings in the sponge.

The important advantages obtained by the invention are that the water thrown off by the sponge set in rotation is caught by the stationary annular sponge surrounding the former, that the driving water is fed more accurately, owing to the gutter leading from the engine blades to the sponge and is supplied directly onto the surface to be cleaned through openings in the sponge.

An embodiment of the invention is illustrated by way of example in the accompanying drawing in which:

Fig. 1 shows the apparatus in inverted position partly in section on line A—A of Fig. 2 and partly in elevation.

Fig. 2 is a top plan view, the driving mechanism being shown partly exposed and the water injecting device in section.

A cross piece *c* is fastened in a casing *a* which has a collar *b* forming a shoulder. In this cross piece *c*, on the one hand, an axle *e* of a water wheel *f* is rotatably mounted on a centre point *d* and, on the other hand, an axle *g* of a spur wheel *h* is fastened which meshes with a pinion *i* of the water wheel axle *e*. A bearing disc *k* screwed onto the boss *h'* of the spur wheel *h* carries a sponge *l*. Driving water is supplied in known manner to the water wheel *f* by means of an injecting nozzle *m*, forming a handle *n*, fastened on

the circumference of the casing *a* and connected to the water main by means of a hose.

The driving water sets the water wheel *f* and therefore the pinion *i*, spur wheel *h*, bearing disc *k* and with same sponge *l* in rotation and passes from the blades *f'* of the wheel *f* into an inclined gutter *o* from which it flows onto the sponge *l* and through openings *p* in the sponge onto the surfaces to be cleaned. The water thrown out tangentially by centrifugal force from the sponge *l* is caught by an annular sponge *l'* surrounding the sponge *l* and fastened to the collar *b* of the casing *a*.

I claim:

A hydraulic driven washing apparatus, comprising in combination a rotary sponge having passage and distributing apertures for the washing water situated away from the centre of rotation of said sponge, a casing carrying said rotary sponge, an annular stationary sponge surrounding said rotary sponge, adapted to completely catch the water thrown off by said rotary sponge, and an inclined trough in said casing adapted to supply the washing water to the apertures of said rotary sponge means for rotating said rotary sponge accommodated in said casing.

In testimony whereof I affix my signature.

RUDOLF SCHLIEPER.