

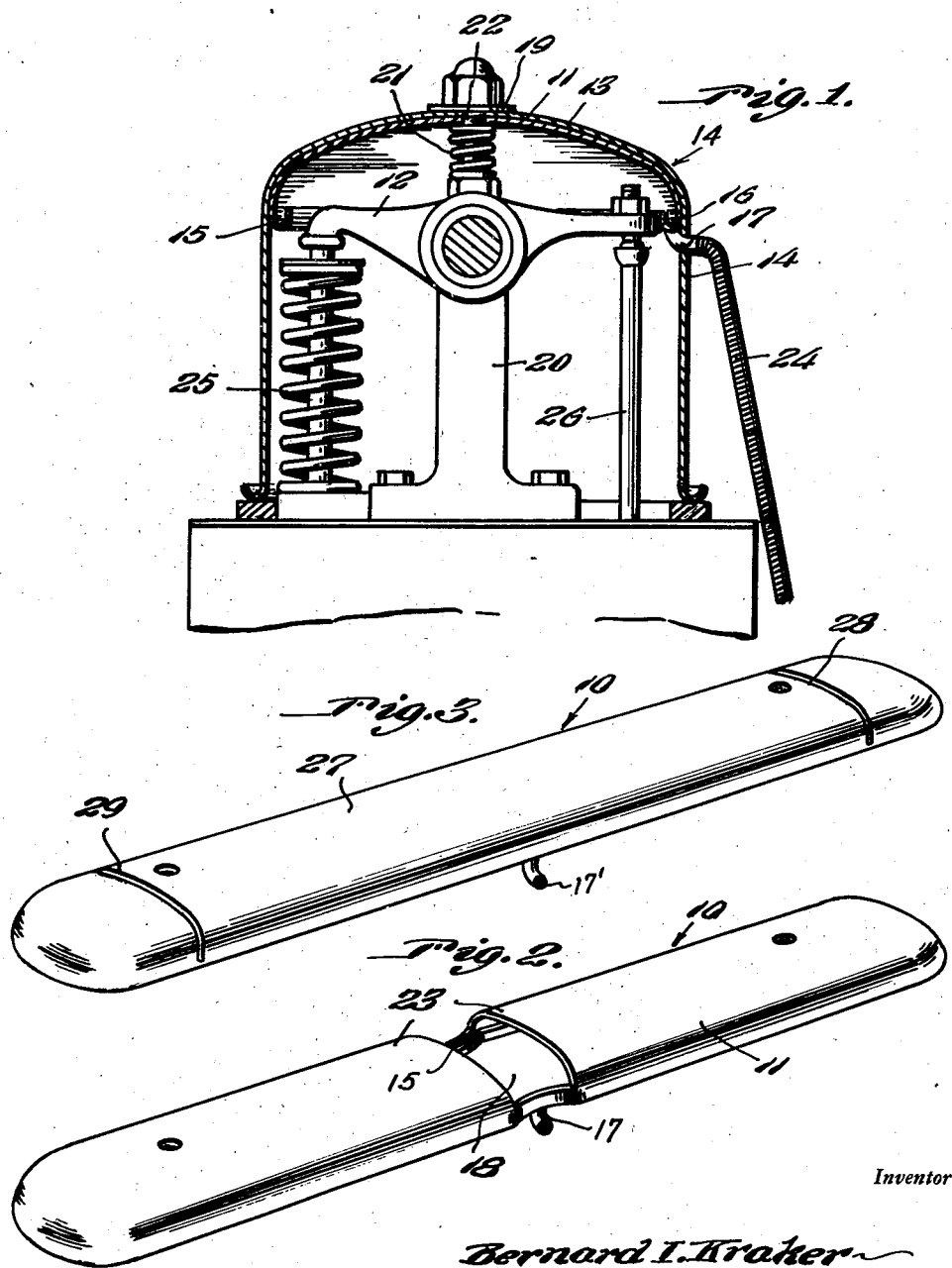
Sept. 9, 1947.

B. I. KRAKER

2,427,288

VAPOR RECEIVER

Filed June 22, 1945



Inventor

Bernard I. Kraker

By

Oliver A. O'Brien
and Harvey B. Jackson
Attorneys

UNITED STATES PATENT OFFICE

2,427,288

VAPOR RECEIVER

Bernard I. Kraker, Melrose, Minn., assignor of
one-half to Frank Roeder, Belgrade, Minn.

Application June 22, 1945, Serial No. 601,016

1 Claim. (Cl. 123—90)

1

This invention relates to internal combustion engines and has for its object to provide means for preventing vapor condensation from returning into the oil pump of the engine.

Another object of this invention is to provide an arcuate cap for the rocker arm of a valve in head engine having a gutter into which the condensation of raising vapor will flow and means for directing the same outwardly of and away from the cylinder block.

Other features and advantages will become more readily apparent from the following description and the accompanying illustrative drawings in which:

Figure 1 is a transverse sectional view of the top of an internal combustion motor,

Figure 2 is a reduced perspective view of my device, and

Figure 3 is a similar view of a modification.

In the accompanying drawings as above enumerated and in the following specification, like characters of reference indicate like parts throughout and in which 10, indicates my invention which consists of a cap 11, to fit over the rocker arm 12, of an internal combustion motor and against the upper wall 13, of the casing 14, for the top of said motor. The member 11, consists of an elongated arcuate plate terminating at its lower edges in a surrounding gutter 15, inclining to an outlet 16, to which is attached a tube 17, projecting through an aperture in the wall of the member 14. An opening 18, is provided in the center of the device through which the bolt 19, projecting from the rocker arm support 20, extends. On this bolt I provide a spring 21, and a washer plate 22, above the spring which bears against the top wall 23, of the member 11, and holds it securely against the wall 13. From the tube 17, extends a flexible tube 24, for carrying off the drainage from gutter 15.

In internal combustion motors vapor arises from the oil sump and other parts of the motor and passes through the apertures of the rods 25, 26, etc., and usually collects upon the surface of the wall 13, where it condenses and a considerable part of which falls on and follows the rods 25, 26, etc., and returns to and mixes with the oil in the sump, which of course is injurious to the motor. Therefore, I have provided the above described means of collecting this condensation and carrying it off from the motor.

2

In Figure 3 I show a modification of the invention to be used in connection with motors having a flat top motor head casing. In this form of the invention the member 27, is formed in one continuous piece, not being divided centrally and is provided on its ends with recesses 28 and 29 to receive projections usually found in the top of the casing head at the opposing ends thereof. Otherwise, the device is arranged as the preferred form.

It is thought that persons skilled in the art to which the invention relates will be able to obtain a clear understanding of the invention after considering the description in connection with the drawings. Therefore, a more lengthy description is regarded as unnecessary.

Minor changes in shape, size and rearrangement of details and parts such as come within the purview of the invention claimed may be resorted to, in actual practice, if desired.

Having now described my invention that which I claim as new and desire to procure by Letters Patent is:

In combination with an internal combustion engine having overhead valves and rocker arms with tappet rods for actuating the same, and a removable inverted U-shaped casing therefor supported upon the head of said engine, of an inverted U-shape oil vapor collecting cap supported within said casing being of a similar shape thereto and disposed in contact with the inner wall thereof, said oil vapor collecting cap being formed with an inwardly disposed inclined trough bent to extend upwardly about the peripheral edge of said cap, and a discharge tube connected with the lowest portion of said trough adapted to carry off the used oil from the condensed oil vapor which collects in said trough for preventing the same from returning to the oil in the engine crank case.

BERNARD I. KRAKER.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
2,012,009	Hobart	Aug. 20, 1935
2,224,376	Chayne et al.	Dec. 10, 1940