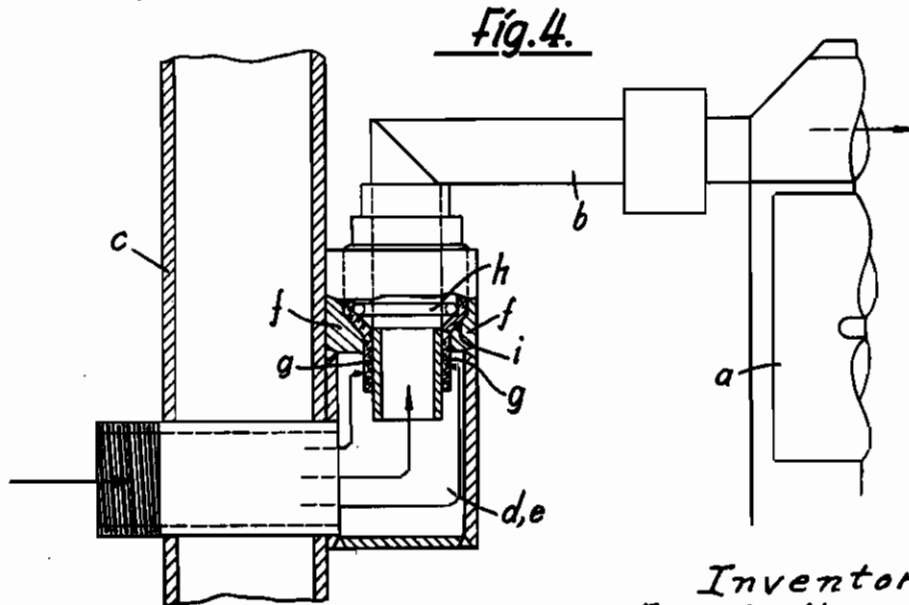
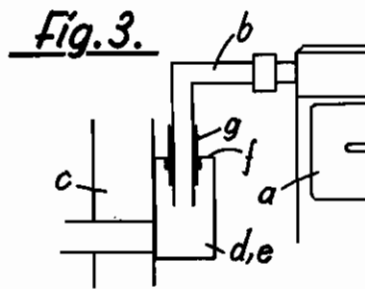
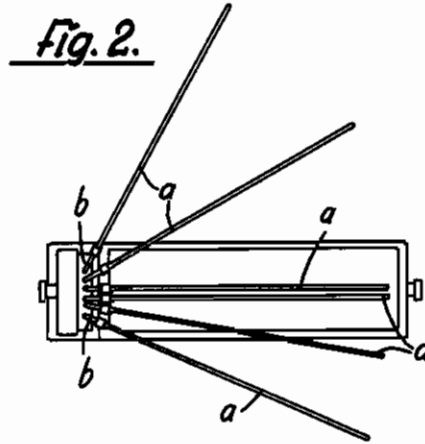
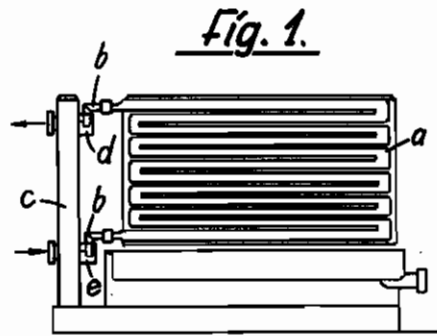


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ALIEN PROPERTY CUSTODIAN

TRICKLE COOLERS

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This invention relates to trickle coolers fitted with movable cooling elements.

Coolers of this class are open to the serious objection that, in view of the mobility of the cooling elements, it has not been possible hitherto to provide a tightly sealing connection of the pipes carrying the cooling medium with the supply and discharge conduits of the cooler. The use of stuffing boxes or hose connections has not given satisfaction, since it involves considerable disadvantages.

It is the object of the invention to provide a pipe connection which insures reliable sealing, does not interfere with the mobility of the cooling elements and can be easily and quickly attached. Furthermore, its construction may be such that sealing pressure automatically increases with the pressure of the cooling medium and thereby prevents leakage.

The invention attains its object by employing as connecting and sealing means an elastic hose member at the point where the pipe for the cooling medium enters the conduits of the cooler, which member continually presses against the pipe while still permitting rotation thereof. The hose member is further suitably united with the top wall of the supply or discharge conduit.

In order to insure tight sealing in case of higher pressure of the cooling medium the hose member is so arranged that its lower end is freely exposed and the cooling medium can therefore press against the outer surface thereof, the sealing effect of the cooling medium increasing with its pressure and excluding any risk of leakage.

Thorough sealing at the top wall of the supply and discharge conduit is effected by pushing the upper end of the hose member over a thickened

portion of the pipe for the cooling medium, so that it is offset all around.

The invention is illustrated by way of example in the accompanying drawing, in which

5 Figures 1 and 2 are, respectively, a side and top view of a trickle cooler embodying the invention;

Fig. 3, is a diagrammatic front view of the slewing point of a cooling element; and

10 Fig. 4, a front view, with the lower part in axial section, of a special construction of the slewing point.

The cooler with the cooling elements *a* of movable type is of known design. The cooling elements *a* are movably disposed with their angular pipes *b* for the cooling medium at a frame *c* of the cooler and dip into the discharge conduit *d* and the supply conduit *e*.

According to the invention, a sealing movable connection of the pipe *b* with the top wall *f* of the conduits *d, e* is established by an elastic hose member *g* which tightly bears against the pipe *b* which nevertheless can turn therein. The member *g* is tightly pressed also against the top wall of the conduits *d, e*.

25 The arrangement as shown may be such that the cooling medium presses from the outside against the member *g*, particularly the lower portion thereof, and thereby has a sealing effect which will increase with the pressure of the medium. The arrows in Fig. 4 indicate this effect.

30 Fig. 4 shows a construction in which the pipe *b* is surrounded by a body *h* over which the upper part of the hose member *g* is drawn so that an offset portion *i* is formed permitting tight bearing against the wall *f* of the conduits *d, e*.

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