

STERN Hugo

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Patents (details)

1 - Dispositif protégeant automatiquement les conduites d'eau en cas de gelée

LU patent	5476
Application date	24 March 1904

(copy to be obtained from Archives nationales)

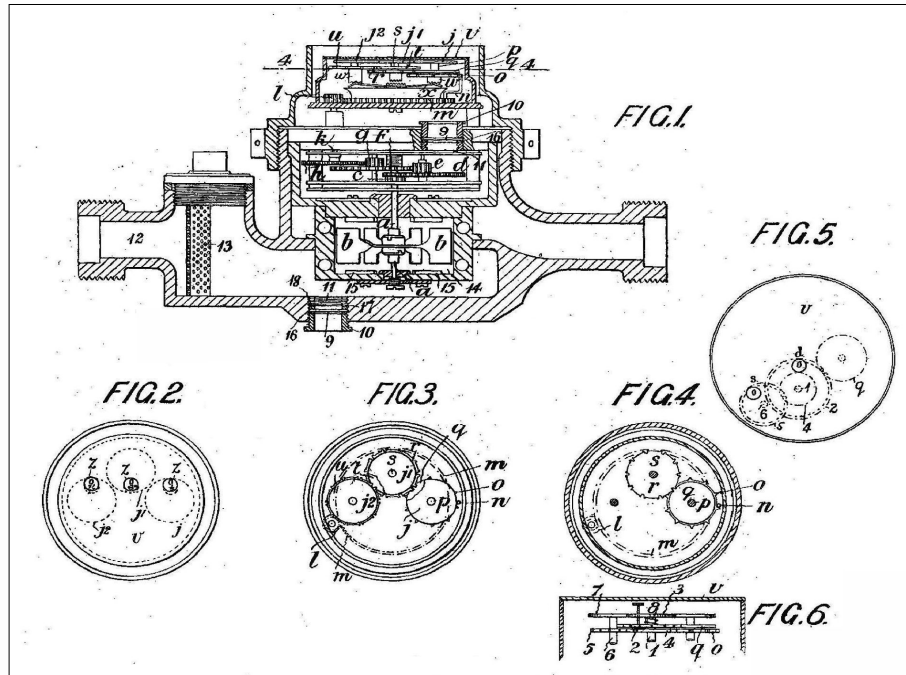
2 - Improvements in and relating to water and other liquid meters

GB patent	1904/17027
Application date	3 August 1904

This invention relates to water and other liquid meters and consists firstly in the employment of a type of registering mechanism which until now has not been employed for apparatus of this kind.

The recorders used heretofore in water meters comprised a certain number of toothed wheels, up to 26, gearing one with the other and several indicating discs arranged side by side, over which pointers moved, from the position of which pointers the quantity of liquid which had passed through the meter could be observed. The disadvantage of this construction consists in the fact that by reason of the complication of the gearing stoppages and disorders are frequent for instance wedging, fracture of the teeth of the wheels which turn slowly, and the like. Moreover all the figures, or nearly all, are exposed and the pointers being small, reading of a meter of this kind is consequently often erroneous, especially when the pointers are situated between two figures.

The present invention obviates these drawbacks in this way that the toothed wheels of the registering mechanism turn the discs which are furnished with figures upon their periphery or upon their surface and which are covered or obscured by a disc of metal or other material having perforations in such manner that only one figure of each disc is visible through the perforations. By preference the disposition is such that the perforations of the metal plate are situated side by side or adjacent to each other in such manner that the figures which appear through the perforations combine to form a number composed of several numerals. Transmission of rotary movement of the discs from one to the other takes place in such a manner that they move intermittently and each time by one division only by means of tappet, Geneva stop, or other suitable gearing, after the passage of the unit of volume which corresponds to the respective disc, they then keep that position and are not moved forward again until a new unit of quantity has passed.



Corresponding patents

LU, FR, CH