

No. 666,383.

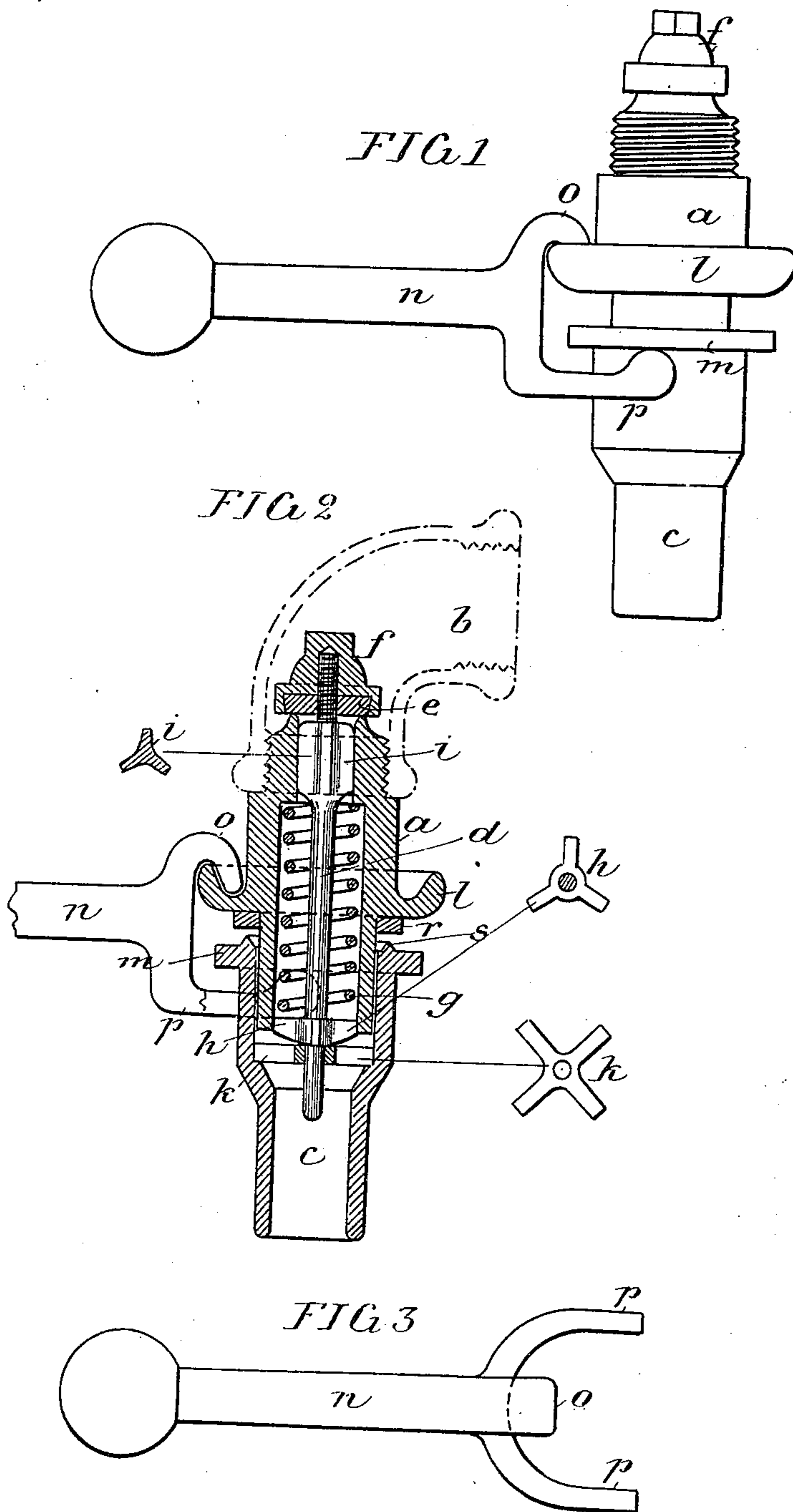
Patented Jan. 22, 1901.

A. HANSEN.

SELF CLOSING COCK FOR WATER OR OTHER FLUIDS.

(Application filed July 13, 1900.)

(No Model.)



Witnesses  
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# UNITED STATES PATENT OFFICE.

ALBERT HANSEN, OF COPENHAGEN, DENMARK.

## SELF-CLOSING COCK FOR WATER OR OTHER FLUIDS.

SPECIFICATION forming part of Letters Patent No. 666,383, dated January 22, 1901.

Application filed July 13, 1900. Serial No. 23,471. (No model.)

*To all whom it may concern:*

Be it known that I, ALBERT HANSEN, manufacturer, residing at Store Torvegade 24, Copenhagen, in the Kingdom of Denmark, have  
5 invented certain new and useful Improvements in or Relating to Self-Closing Cocks for Water or other Fluids, (for which I applied for patents in Denmark on the 28th of March, 1900, No. 349, and in Germany on the  
10 27th of May, 1900,) of which the following is a specification.

The invention relates to a self-closing cock for water and other fluids characterized by  
15 the feature of the outlet-spout or outlet-pipe of the valve arranged in or upon the cock-casing or valve-casing and mounted movably along the same, to which it is kept by a loose handle, which can be turned around the cock-casing and which when it is operated moves  
20 the outlet-spout of the cock-casing so that the cock is opened and again is closed when the handle is released, as a spring in the cock then will bring the parts back to their initial state.

25 The invention is illustrated in the annexed drawings, in which—

Figure 1 represents a side view of the cock. Fig. 2 shows a vertical longitudinal section through the cock, and Fig. 3 shows the handle  
30 seen from above.

The cock or the valve consists of a cock or valve casing *a*, perforated longitudinally, which is affixed to the afflux-pipe *b* and on  
35 the lower end of which the outlet spout or pipe is screwed.

In the cock or valve casing *a* is situated a valve-rod *d*, surmounted with a valve *f*, which has a packing, and which valve normally is  
40 pressed down against the upper end of the cock-casing and shuts up the supply. This is effected through a spiral spring *g*, situated inside the cock-casing and around the valve-rod and the upper part of which is pressed  
45 down against the breast of the cock-casing, while the lower end is pressed down against a perforated steering-piece *h*. The upper end of the valve-rod bears also a steering-piece *i*, furnished with passages for the fluid. The steering-piece is placed against a disk *k*, situ-  
50 ated in a seat of the outlet-pipe *c*, furnished with passages for the water.

On the outside the cock or valve casing is

furnished with a circular groove or flange *l*, while the outlet-pipe in the upper end has a ring-shaped flange *m*. These two flanges are  
55 grasped by the claw-formed end of the loose handle *n*, the end of which consists of an upper and two lower claws *o p p*, respectively, the upper claw *o* of which grasps in the groove or flange *l*, while the two lower claws *p* take  
60 against the down side of the flange *m*. When the handle *n* is pressed down, the outlet-pipe *c* will be brought upward, and the disk *k* will press upward the steering-piece *h* and then  
65 also the valve-rod and the valve, and thus the cock is opened. As soon as the valve is free the spring will bring back into the initial position all the pieces and shut the cock.

For preventing the exit of the fluid by a higher pressure between the cock-casing and  
70 the outlet-pipe *c* a packing *r* can be placed on the lower end of the flange *l*, and on the upper end of the flange *m* may be arranged a triangular profiled rim *s*, which when the outlet-pipe is pressed upward is forced into  
75 the packing-ring and closely shuts the opening between the two flanges. This arrangement of packing is not shown in Fig. 1.

The handle *n* may, as will be seen, be turned  
80 around the cock, so that it may be turned out to the side, in which position it is most convenient to handle it.

I claim—

A self-closing cock for water and other fluids, characterized by an outlet-pipe, arranged  
85 in or upon the valve-casing and situated movably on the same, which pipe is kept on its place and may be moved along the cock or valve casing by a turnable handle, placed loosely around the cock, the claw-formed end  
90 of which handle grips into the flange or the projection of the casing and of the outlet-pipe, and which pipe, when it by the handle is moved upward, operates the valve, arranged in the casing, whereby the cock is  
95 opened by depressing the handle and when the handle is released is closed by the action of the valve-spring.

In witness whereof I have hereunto set my hand in presence of two witnesses.

ALBERT HANSEN.

Witnesses:

MAGNUS JANSEN,  
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