S. P. M. TASKER.

Improvement in Stop-Valves.

No. 128,924. Patented July 9, 1872.

FIG. 1

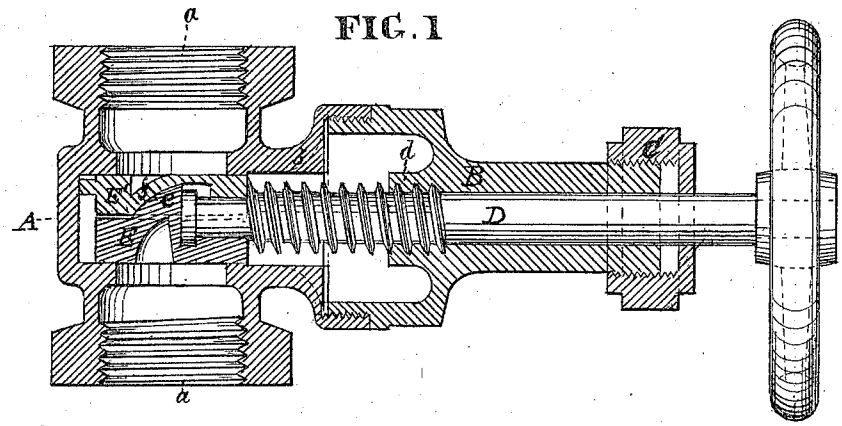


FIG. 2

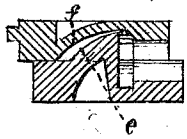


FIG. 3

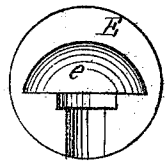


FIG. 5

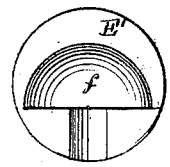


FIG. 4

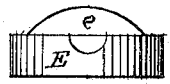
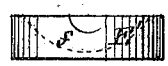


FIG. 6



WITNESSES

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STEPHEN P. M. TASKER, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN STOP-VALVES.

Specification forming part of Letters Patent No. 128,924, dated July 9, 1872.

Specification describing an Improvement in Stop-Valves, invented by STEPHEN P. M. TASKER, of the city of Philadelphia and State of Pennsylvania.

My invention relates to that kind of stop-valves in which duplicate disks are operated by the same screw-stem and close against flat seats at opposite points. It consists of spherical inclines on the inner faces of duplicate disks, so constructed and arranged in relation to each other that the pressure of the ends of the screw-stem upon one of the disks, as hereinafter described, forces the inclines together and expands the disks, and thereby closes them upon their seats. As the spherical inclines may turn freely on each other in any direction, when either disk is tilted, by something getting between it and its seat, the normal position of the opposite disk is not disturbed.

Figure 1 is a longitudinal section of the improved valve. Fig. 2 is a sectional view of the duplicate disks E and E′, showing their arrangement when opened from their seats. Figs. 3 and 4 are an inside face view and an edge view of the disk E. Figs. 5 and 6 are like views of the disk E′.

Like letters in all the figures indicate the same parts.

A is the valve-box, which has openings *a a* for connecting it to the pipes in the usual manner. B is the center-piece, connected with the projection *b* of the box A, and having a central screw-nut, *d*, and stuffing-box C, through which the screw-stem D works for operating the disks E and E′. The disks are shown in detail in Figs. 3, 4, 5, and 6. The disk E, with which the inner end of the screw-stem D is connected, is provided with a spherical incline projection, *e*, and the disk E′, also connected with the stem, has a spherical incline depression, *f*. The said inclines are so constructed and arranged in relation to each other that when the disk E is forced forward by the turning of the screw-stem D the incline *e* presses against the incline *f* of the disk E′ and spreads the two disks apart so as to close them upon their seats, as represented in Fig. 1. By a reverse movement of the screw-stem D the inclines are separated from contact with each other, and allow the disks to come together, as seen in Fig. 2, to open them from their seats.

I claim as my invention—

The combination of male and female spherical inclines *e f* of the duplicate disks E and E′, so constructed and arranged that the tilting of either disk from its valve-seat shall not disturb the normal position of the opposite disk, substantially as described.

STEPHEN P. M. TASKER.

Witnesses:

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STEPHEN USTICK.