

S. P. M. TASKER.
Improvement in Stop-Valves.

No. 128,922.

Patented July 9, 1872.

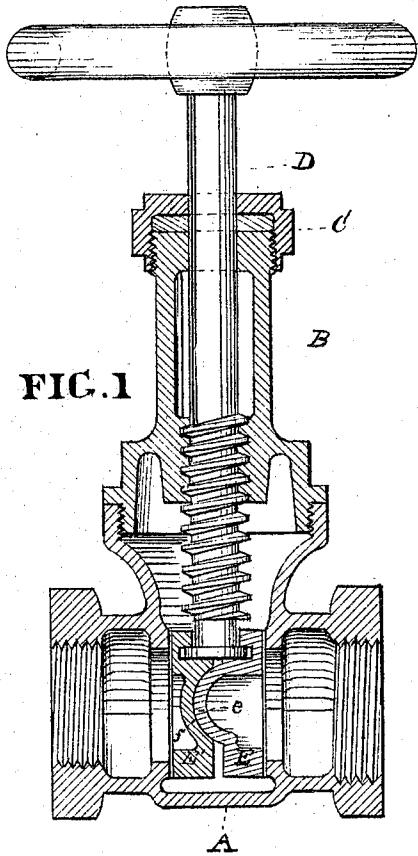


FIG. 1

FIG. 2

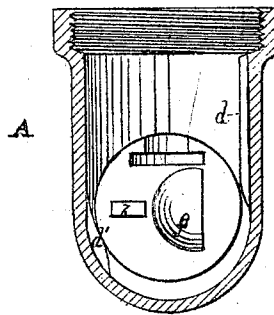


FIG. 3

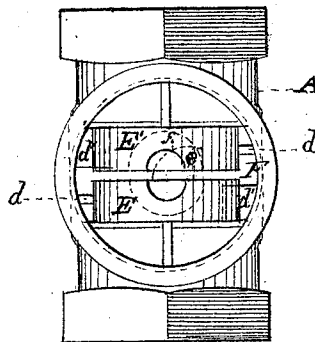


FIG. 4

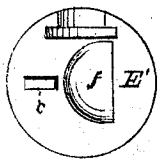


FIG. 5

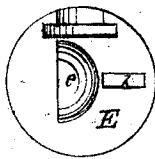


FIG. 6

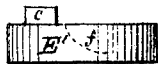


FIG. 7



WITNESSES

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IMPROVEMENT IN STOP-VALVES.

Specification forming part of Letters Patent No. 128,922, dated July 9, 1872.

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

My invention relates to that class of stop-valves that have duplicate disks that are opened and closed by means of a central screw-stem. The first part of the invention relates to vertical guides at two diagonal corners of the valve-chamber, in the upper part of the same, upon which opposite edges of the valves impinge as the latter are brought to their open position. The second part of the invention relates to inclined guides in the lower part of the valve-chamber, in the other two diagonal corners, upon which the other opposite edges of the disks bear when the disks are closed upon their seats.

Figure 1 is a vertical section of the improved valve, the disks E and E' being closed upon their seats *a a*. Fig. 2 is a like view of the valve-box A taken at right angles to Fig. 1. Fig. 3 is a top view of the box A with the disks E and E', connected therewith, in their closed position. Figs. 4 and 5 are an inner face view and an edge view of the disk E. Figs. 6 and 7 are like views of the disk E'.

Like letters in all the figures indicate the same parts.

A is the valve-box; B, the center-piece; C, the stuffing-box; and D a central screw-stem for opening and closing the disks E and E', which are shown in detail in Figs. 4, 5, 6, and 7. The interior view of the valve, in which the operating central screw-stem D is in connection with the disks, is shown in the vertical section, Fig. 1. As these parts are fully described in my application for Letters Patent filed December 12, 1871, and which is allowed, a further description I deem unnecessary, ex-

cept as to some minor details in the construction of the disks, viz.: The spherical inclines *e* and *f*, with which the inner faces of the disks are provided, have a lateral sliding motion against each other in the present application, but in the previous application a vertical sliding motion. The disks E and E' are connected together at their lower edges by means of the depression *b* and lug *c*. There are vertical guides *d d* in the upper part of the valve-chamber F, at diagonal corners thereof, against which the opposite edges of the disks E E' bear in the opening of the disks; and there are inclined guides *d' d'* in the lower part of the chamber, at the other two diagonal corners, upon which the opposite edges of the disk bear when the disks are brought to their closed position. The said guides *d d* and *d' d'* are represented in Figs. 2 and 3.

Although I prefer the use of spherical inclines for opening and closing the disks E and E', yet I do not confine myself to the use of the same, as other forms of the wedge will act in connection with the guides above described.

I claim as my invention—

1. The combination of the corner-guides *d d* with the valve-chamber F and disks E and E', the said disks being operated by means of the devices above described, or other suitable mechanism, substantially in the manner and for the purpose above described.

2. The combination of the lower corner inclined guides *d' d'* with the chamber F and disks E E', substantially as and for the purpose set forth.

STEPHEN P. M. TASKER.

Witnesses:

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