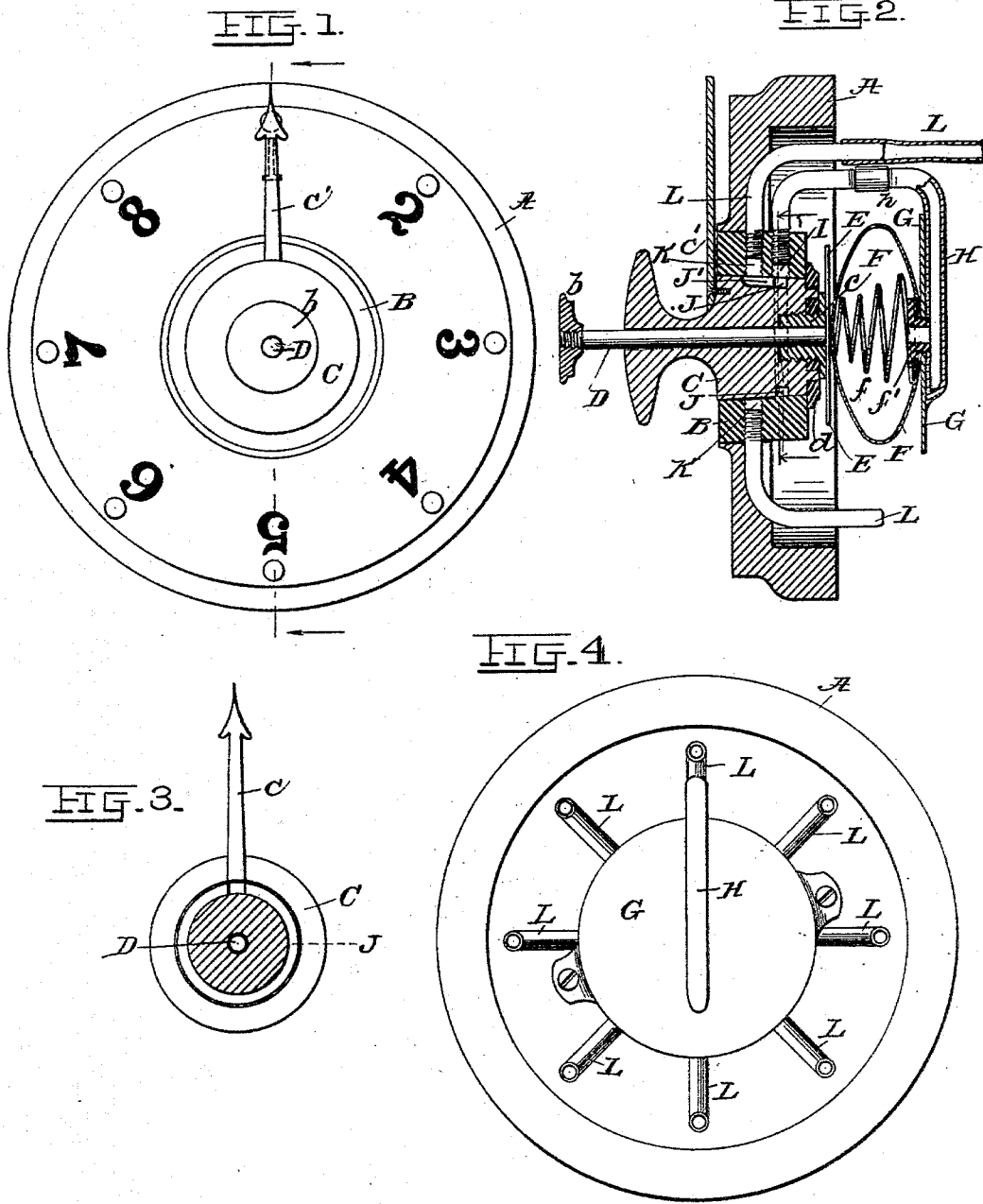


(No Model.)

J. SCHNEPP.
PNEUMATIC SIGNAL SWITCH.

No. 514,503.

Patented Feb. 13, 1894.



WITNESSES:

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PNEUMATIC SIGNAL-SWITCH.

SPECIFICATION forming part of Letters Patent No. 514,503, dated February 13, 1894.

Application filed March 15, 1893. Serial No. 466,133. (No model.)

To all whom it may concern:

Be it known that I, JOHN SCHNEPF, a citizen of the United States, and a resident of the city, county, and State of New York, have invented
5 a new and useful Improvement in Pneumatic Signal-Switches, of which the following is a specification.

My invention relates to a new and useful improvement in a pneumatic signal switch of
10 which the following taken in connection with the accompanying drawings is a full, clear, and accurate description.

In the accompanying drawings, Figure 1 is a front view representing a numerated dial—
15 a pointer and a push button with its setting device. Fig. 2 is a central vertical section of my pneumatic signal switch. Fig. 3 shows the pointer and the indicator setting device. Fig. 4 is a rear view of my pneumatic signal
20 switch.

Corresponding letters indicate corresponding parts.

A represents a circular base having a stop-cock fitted in its center.

25 *b* represents a push button screwed to a rod D, this rod D passes through a central hole in the stop cock indicator and is fastened to the circular plate E.

30 *d* is a washer that is held to the bottom of the stop-cock casing by a hollow shoulder nut C, so that the rod D can pass through it.

F is an air holder or bellows screwed to the circular plate G by nut *f'*, having a hole through its center and thereby connecting
35 tube H with I screwed in the casing K.

The stop-cock C has a groove cut in its circumference J to be used as an air chamber and a slot J' is cut in the stop-cock to connect the air space K with the air space J or
40 grooved circular air chamber.

L L are tubes screwed in the casing of the stop-cock K, the several tubes are shown in Figs. 2 and 4.

45 Having described the mechanism of my invention, I will now explain its action. The revolving indicator is turned to No. 1 on the dial as shown in Fig. 1, the push-button *b* is pressed inward causing the rod D and the circular plate E to compress the air holder F, and

forcing the air that it contains into the tube 50 H, thence to the air chamber J, which connects with a slot or groove marked J' and thence to tube L. It will be seen that the spring *f* in the air holder acts on the push-button plate to bring it into its normal position. 55

By my invention, as may be readily seen, signals may be given at any desired number of different points. As shown in the drawings, there are eight of such points, and as above suggested all that is necessary is to 60 turn the stop-cock in such manner that the index finger or pointer *c'* shall point to such one of the figures on the dial as correspond with the place or locality to which the signal is to be sent. Thereupon pressure upon 65 the thumb button *b* actuates the air compressor and the air is forced through the appropriate tube L to the desired place. Of course there are as many of these tubes L as there are places to be connected with, they 70 being arranged around the dial, as already indicated.

Having described my invention, what I claim is—

1. A pneumatic signal switch, comprising 75 the following elements, a stop-cock provided with an air passage or groove, a yielding air compressing device, a rod to compress the said device, a tube connecting with said groove in the stop-cock, and other tubes con- 80 necting with an air passage in the stop-cock, which connects with said groove therein, substantially as set forth.

2. A pneumatic signal switch, comprising 85 the following elements, a stop-cock, provided with an air passage or groove, an opener upon said stop-cock, an index or dial adjacent to the opener, a yielding air compressing device, a rod to compress the said device, a tube connecting the said device with said 90 groove in the stop-cock and other tubes connecting with an air passage in the stop-cock, which connects with said groove therein, substantially as set forth.

3. A pneumatic signal switch comprising 95 the following elements, a stop-cock provided with an air passage or groove, a yielding air compressing device, a rod to compress

the said device, which passes through the stop-
cock, a tube connecting the said device with
said groove in the stop-cock and other tubes
connecting with an air passage in the stop-
5 cock, which connects with said groove there-
in, substantially as set forth.

In testimony that I claim the foregoing as

my invention I have signed my name, in pres-
ence of two witnesses, this 14th day of March,
1893.

JOHN SCHNEPF.

Witnesses:

FRANCIS F. ATKINSON,
WM. H. BELLAMY, Jr.