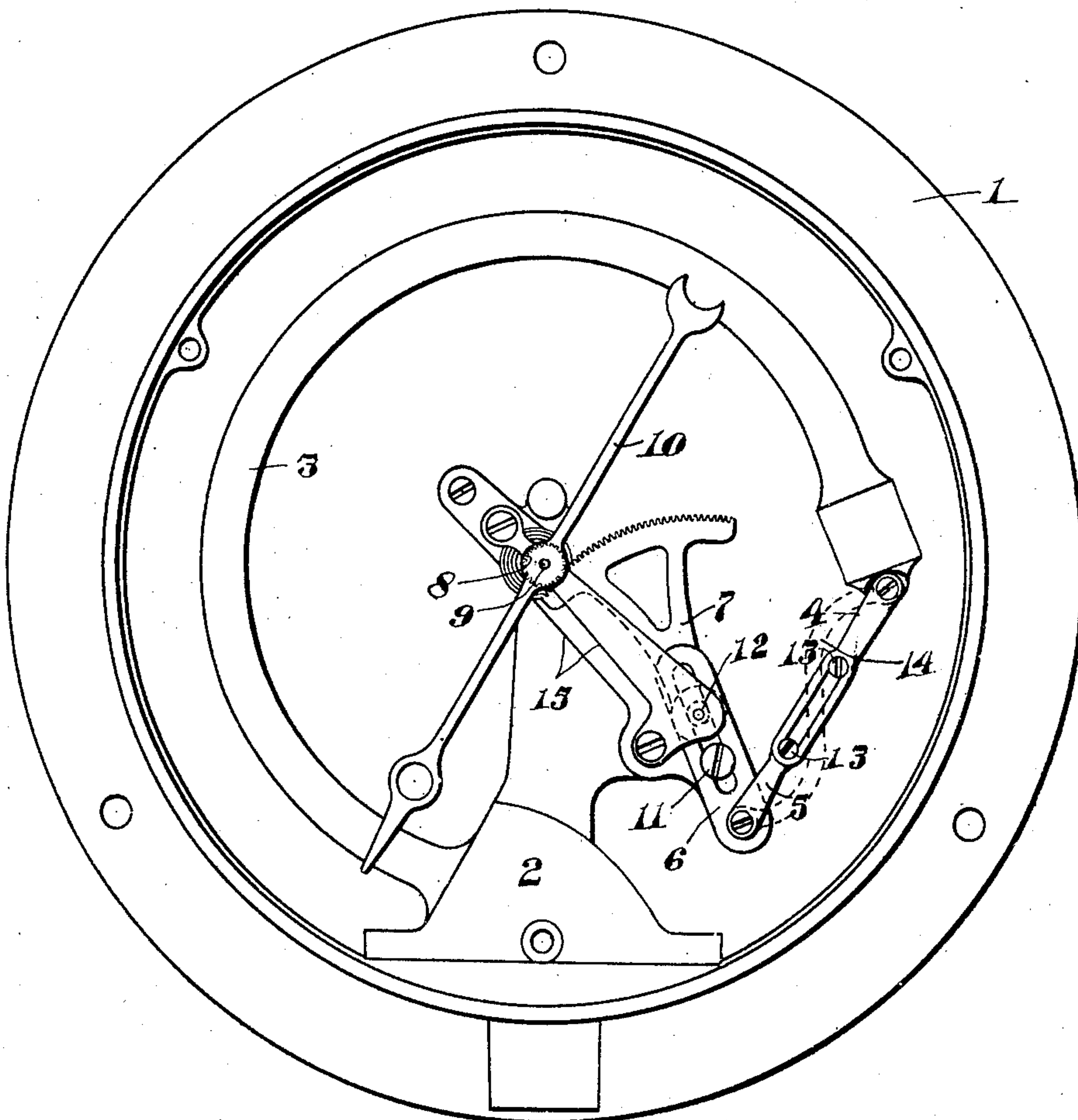


No. 829,552.

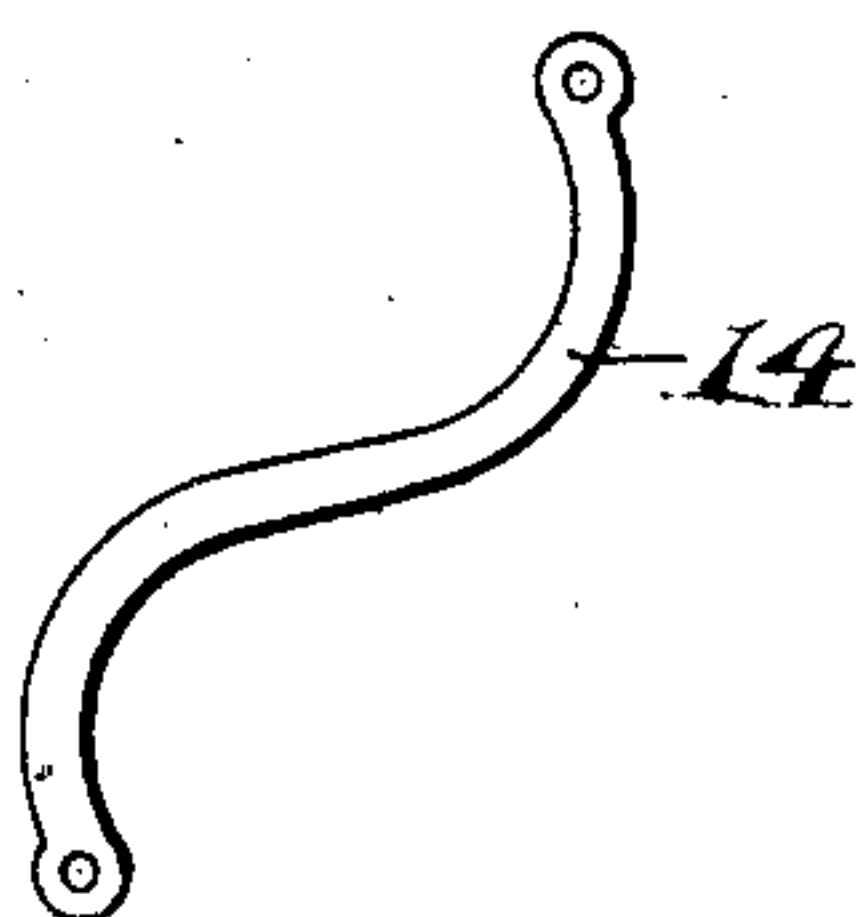
PATENTED AUG. 28, 1906.

G. SPENCER.  
PRESSURE GAGE.  
APPLICATION FILED MAR. 31, 1905.

*Fig. 1.*



*Fig. 2*



**Witnesses:**

*Edwin T. Luce*  
*Edna C. Cleveland*

**Inventor:**

*G. Spencer*  
by *Ralph W. Atty*

# UNITED STATES PATENT OFFICE.

GEORGE SPENCER, OF MEDFORD, MASSACHUSETTS, ASSIGNOR TO CROSBY STEAM GAGE AND VALVE COMPANY, OF BOSTON, MASSACHUSETTS, A CORPORATION OF MASSACHUSETTS.

## PRESSURE-GAGE.

No. 829,552.

Specification of Letters Patent.

Patented Aug. 28, 1906.

Application filed March 31, 1905. Serial No. 252,994.

*To all whom it may concern:*

Be it known that I, GEORGE SPENCER, a citizen of the United States, and a resident of Medford, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Pressure-Gages, of which the following is a specification.

My invention relates to pressure or vacuum gages employing a Bourdon-tube spring, and more particularly to the linkage employed in such gages to connect the free end of the tube-spring with the sector used to actuate the pinion-shaft carrying the index-hand. Its object is to provide a linkage easily adjustable, and I attain this object by the means illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of the pressure-gage, partly in dotted lines. Fig. 2 is a plan view of the link which constitutes my improvement.

Similar characters refer to similar parts in the drawings.

Fig. 1 shows a pressure-gage inclosed within the case 1 and having the gage mechanism mounted upon the gage-socket 2. The Bourdon-tube spring 3 has its inner end affixed to said socket, and to its free outer end is attached the slotted link 4, adjustable longitudinally on the slotted link 5, which is pivoted to the slotted link 6, adjustable longitudinally on the arm of the sector 7, which is mounted in the frame 15 and engages the pinion 8, (dotted lines,) on whose shaft 9 is mounted the index-hand 10. In assembling the parts of the pressure-gage it is necessary to adjust them as follows: The link 6, which is longitudinally adjustable on the arm of the sector 7, must be so adjusted that the movement of the free

end of the Bourdon-tube spring will cause the toothed end of the sector to rotate the pinion 8 just enough to carry the index-hand around the desired distance, or nearly one rotation. This adjustment is secured by the screw 11 and the sector-shaft 12, which engage the slot in said link 6. In order to accomplish this, it is necessary that in the normal position of the tube-spring the sector should engage the pinion in about the position shown in Fig. 1, and this is done by adjusting the links 4 and 5 and securing the adjustment by the screws 13. All this requires considerable time and manipulation, and to simplify it I substitute for these two links 4 and 5 the single curved link 14. (Shown in Fig. 2 and also in dotted lines, Fig. 1.) The operator can lengthen or shorten this link quickly and effectively with his pincers.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

In a pressure-gage the combination, with the Bourdon-tube spring and registering mechanism comprising a sector having an operating-arm, of a link connecting said mechanism with said tube-spring and having pivot-eyes at each end and provided with one or more transverse bends, or curves, whereby the distance between said eyes may be varied by changing the form of said bends, or curves; substantially as described.

In testimony whereof I have affixed my signature in presence of two witnesses.

GEORGE SPENCER.

Witnesses:

RALPH W. FOSTER,  
IRENE M. LYALL.