

R. E. STAFFORD & A. F. LOTT.
RAM.

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964,128.

Patented July 12, 1910.

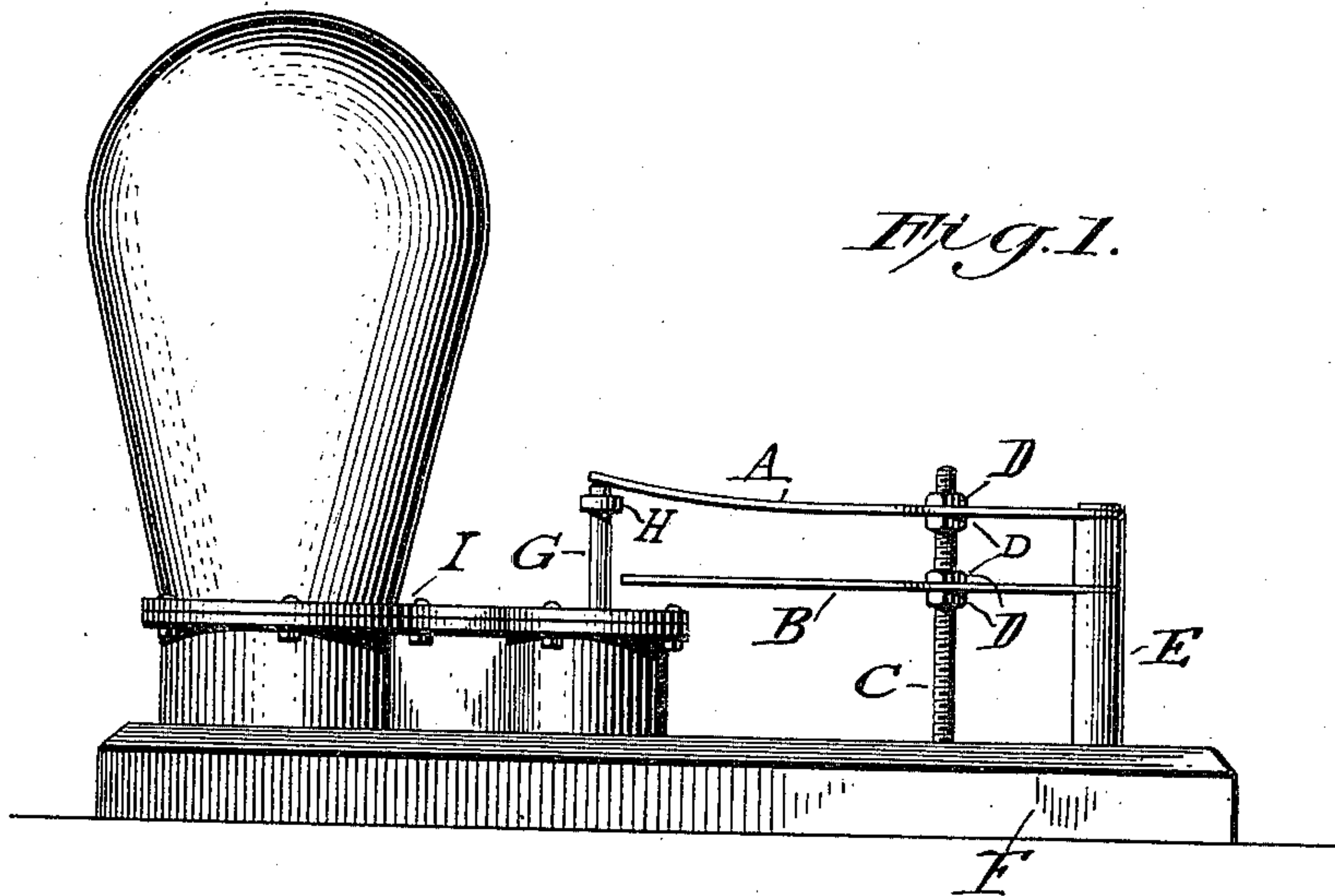
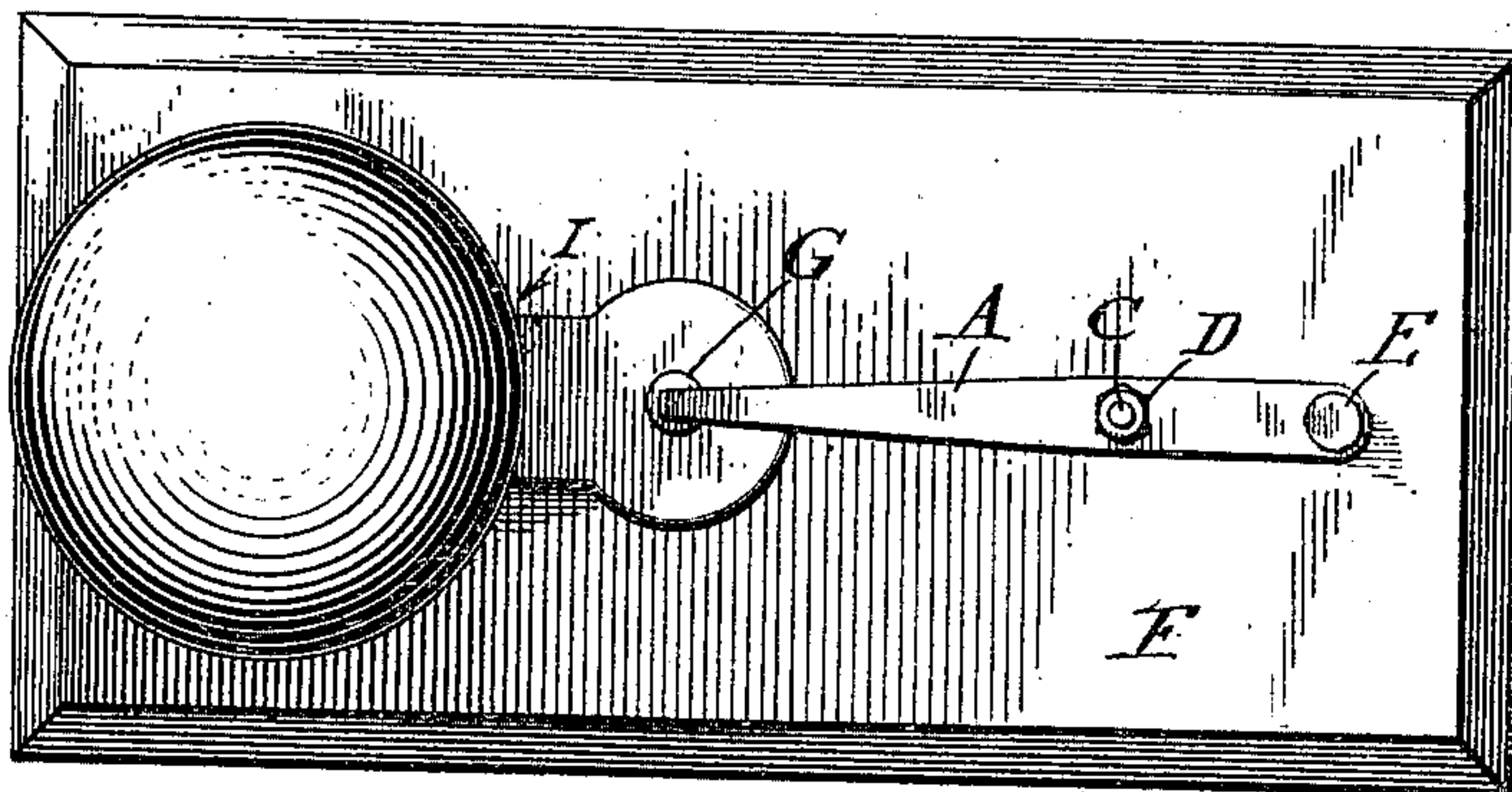


Fig. 2.



Witnesses.

M. A. Stafford
N. G. Blalock.

Inventors.

R. E. Stafford
A. F. Lott

UNITED STATES PATENT OFFICE.

RICHARD EMBERSON STAFFORD AND ALBERT FRANKLIN LOTT, OF WALLA WALLA, WASHINGTON.

RAM.

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To all whom it may concern:

Be it known that we, RICHARD EMBERSON STAFFORD and ALBERT FRANKLIN LOTT, citizens of the United States, residing at Walla Walla, in the county of Walla Walla and State of Washington, have invented a new and useful Attachment for a Ram, of which the following is a specification.

Our invention relates to improvements in rams in which horizontal springs operate in conjunction with a waste valve stem; and the object of our improvement is to provide continuous and uninterrupted action of the waste valve. The failure of a ram to work is generally due to an over amount of pressure on the waste valve or to insufficient pressure on said waste valve; the waste valve failing to rise after the downward stroke or failing to fall after the upward stroke. We attain these objects by the mechanism illustrated in the accompanying drawing, in which—

Figure 1. is a view in perspective of the ram together with our attachment; the several parts of said attachment being designated by the letters A B C D E F; the waste valve stem of said ram being designated by the letter G. Fig. 2. is a top view of the ram together with a top view of our attachments, showing parts A C D E.

Similar letters refer to similar parts throughout.

The adjuster C and the support E are firmly attached to the base F; the base F, in turn, being firmly attached to the ram I. Spring A and the spring B are firmly attached to the support E and supported at the adjuster C by means of four lock-nuts

D D D D as shown in the drawing. The adjustment of the springs A and B is effected by the manipulation of the four lock-nuts D D D D. When the waste valve stem G is set in motion the springs A and B are so adjusted by means of the four lock-nuts D D D D as to aid in forcing the waste valve stem either down or up as the lack of pressure or over amount of pressure may otherwise retard or stop the action of the waste valve stem G. When the collar H on the downward stroke comes in contact with the spring B the waste valve stem G is started on the upward stroke.

We claim—

1. In a ram, the combination of a waste valve stem, a collar on the stem, two spaced substantially flat springs, the said collar being located between the adjacent ends of the springs, a support for the springs located at their opposite ends, and an adjusting means located between the valve stem and the support.

2. In a ram, the combination of a waste valve stem, a collar on the stem, two spaced substantially flat springs, the said collar being located between the adjacent ends of the springs, a support for the springs located at their opposite ends, and a vertical threaded member located between the valve stem and the support and provided with lock nuts for adjusting the springs.

R. E. STAFFORD.
A. F. LOTT.

Witnesses:

R. G. LYNN,
M. A. STAFFORD.