

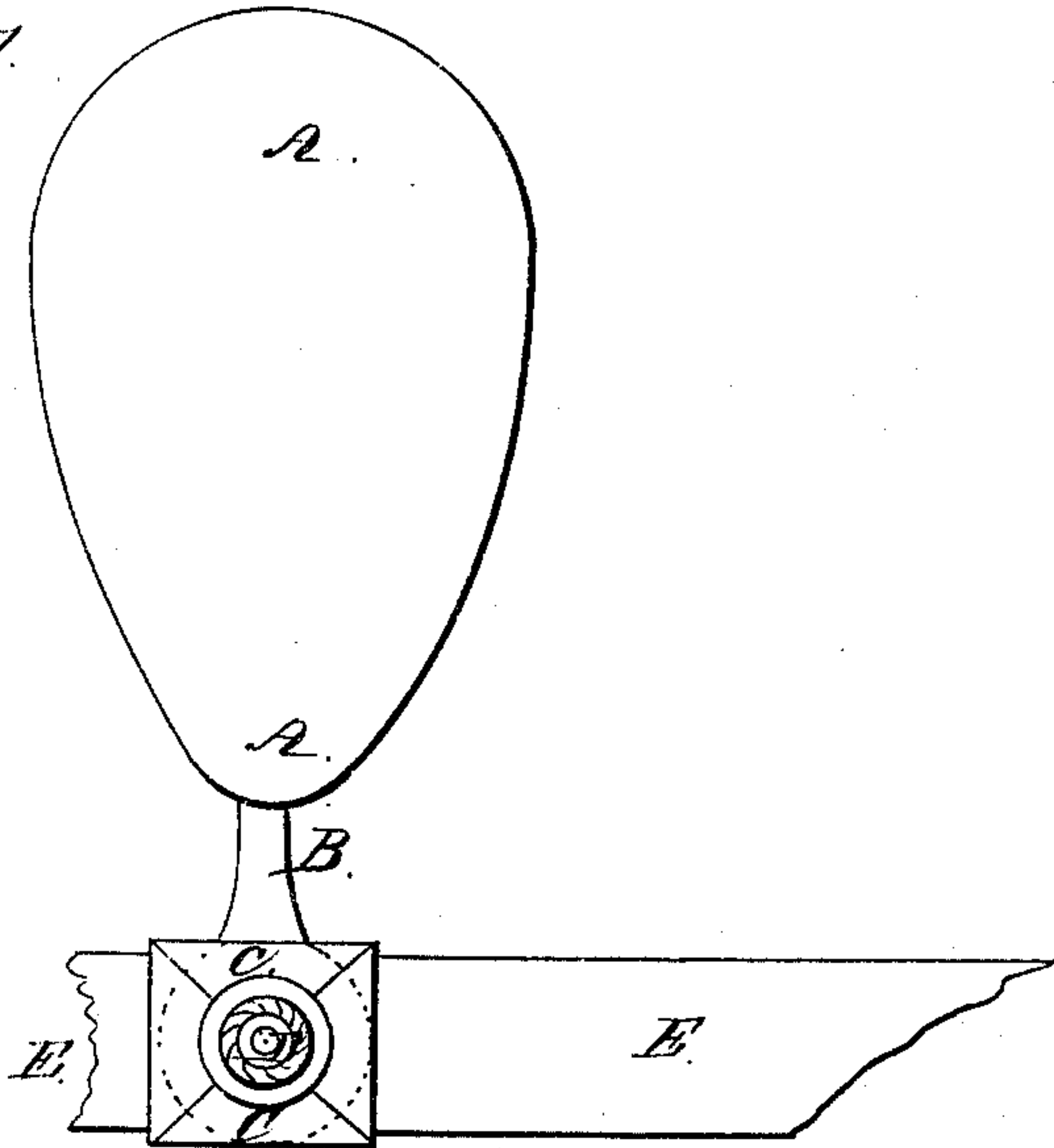
*H. R. Allen,*

*Truss,*

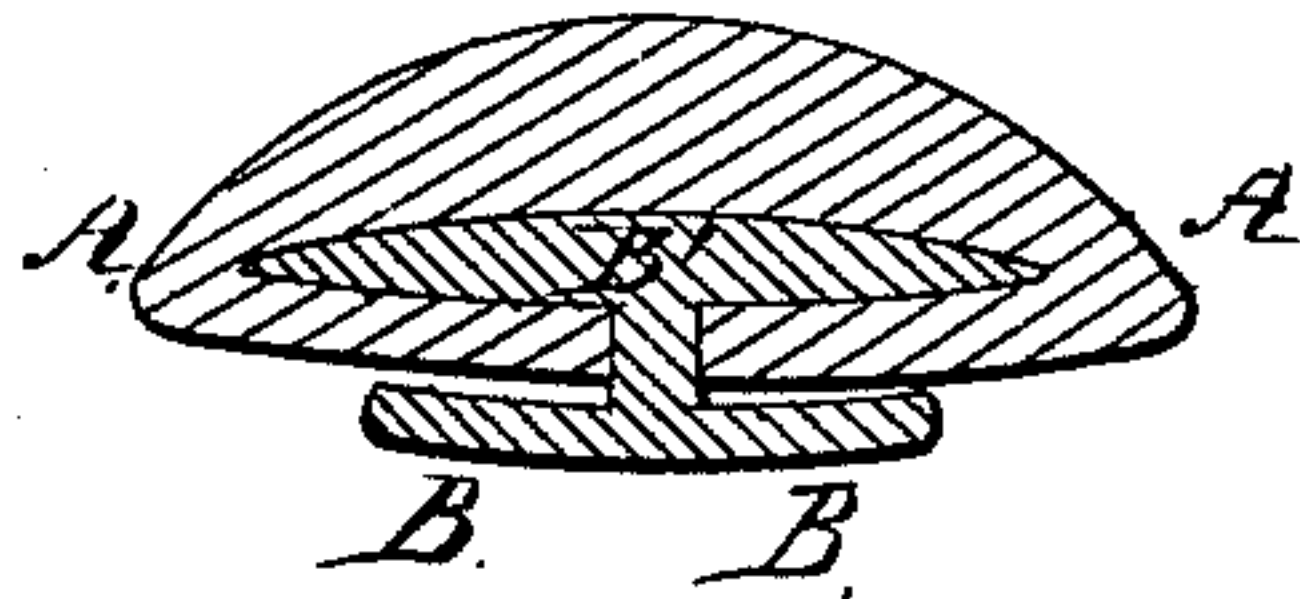
*N<sup>o</sup> 108,428.*

*Patented Oct 18, 1870.*

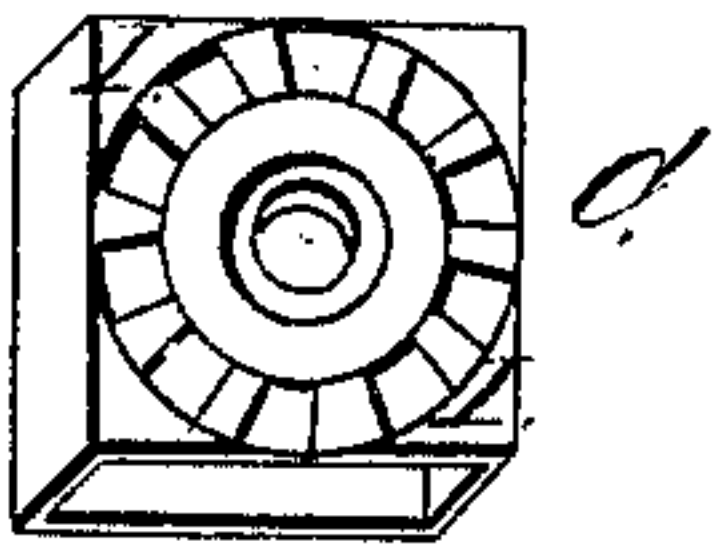
*Fig. 1.*



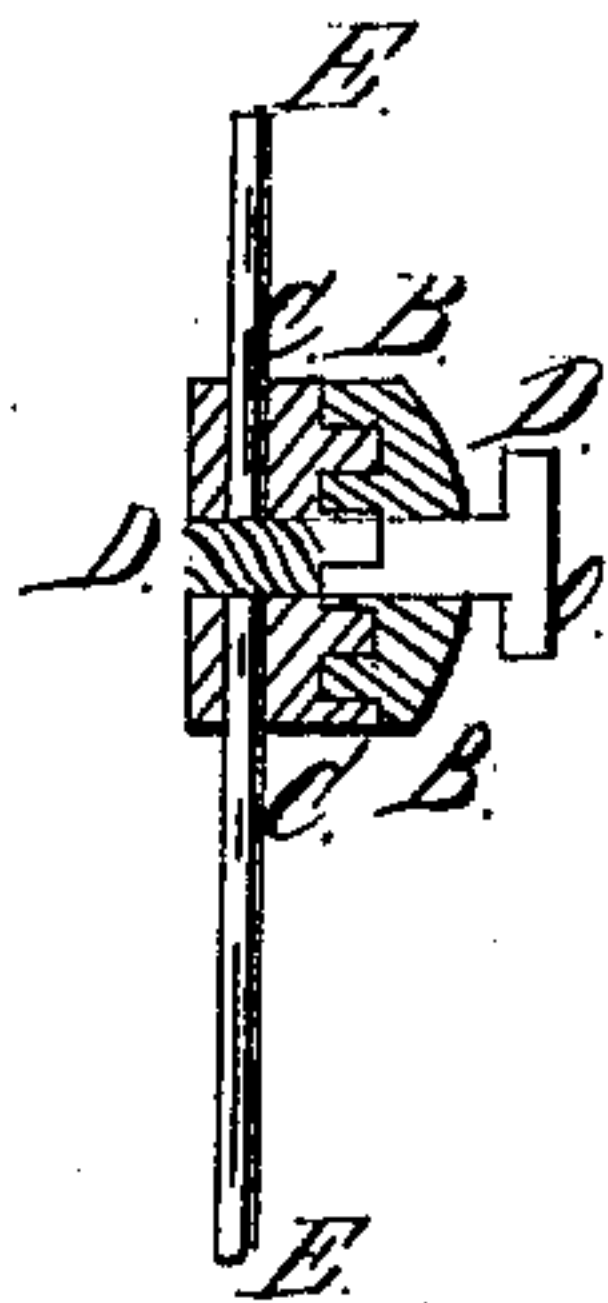
*Fig. 2.*



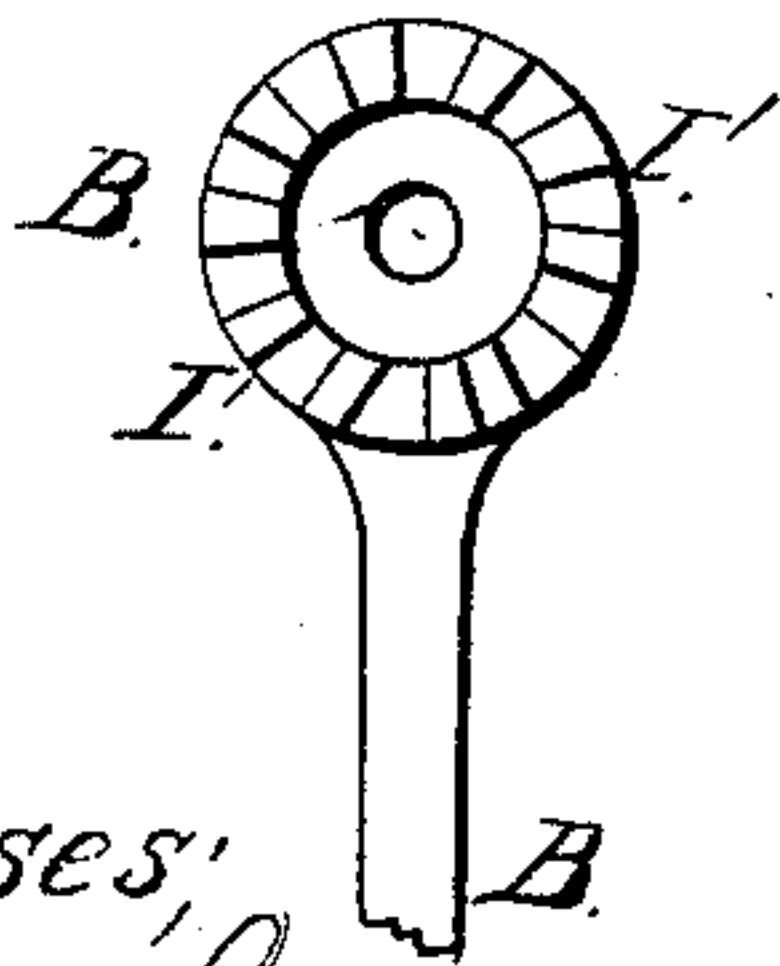
*Fig. 3.*



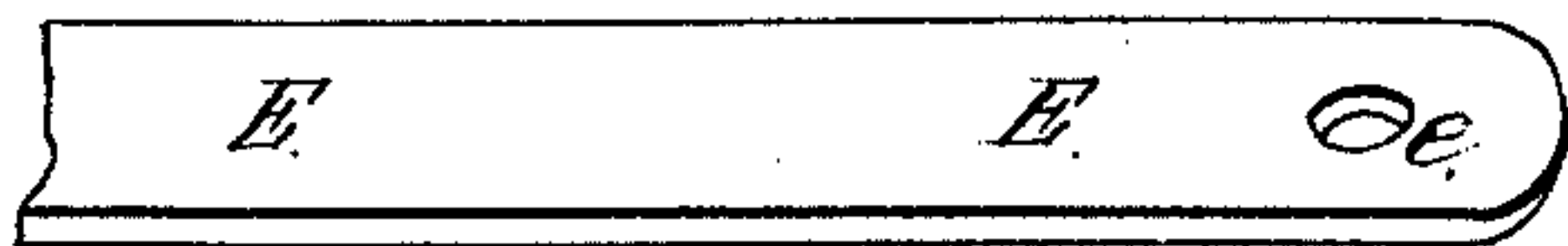
*Fig. 5.*



*Fig. 4.*



*Fig. 6.*



*Witnesses;*

*Deo. Fisher  
J. R. Cannon*

*Inventor;*

*H. R. Allen.  
By C. E. McDonald atty.*

# United States Patent Office.

HORACE R. ALLEN, OF INDIANAPOLIS, INDIANA.

Letters Patent No. 108,428, dated October 18, 1870.

## IMPROVEMENT IN TRUSSES.

The Schedule referred to in these Letters Patent and making part of the same.

### *To all whom it may concern:*

Be it known that I, HORACE R. ALLEN, of Indianapolis, in the county of Marion and in the State of Indiana, have invented an Improvement in Truss-Pads; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters and figures of reference marked thereon.

The nature of the invention consists in the combination of a soft-rubber pad with annular corrugated-edges plates, for adjusting the same, as hereinafter described, said device to be made of rubber and brass, or any other convenient metal.

To enable others skilled in the art to make and use my said invention, I proceed to describe it more particularly, as follows, viz.:

Figure 1 of the accompanying drawing is intended to represent the pad fastened on the spring of the truss.

A is the pad.

B, the stem of the pad.

C, the loop which holds it in the spring.

D, a bolt that fastens it on the loop.

E, the spring.

Figure 2 is a sectional view of the pad.

A is soft rubber.

B', the interior metallic support, on which A is vulcanized, which holds it, and is attached, by convenient necks, to a blade on the stem B.

Figure 3 represents the loop C, on which is an annular corrugated edge, represented by I. To this is

fitted the annular corrugated edge I of B, represented in Figure 4.

Figure 5 is a sectional view, showing how the loop C is attached to the spring E, how the corrugated edges of C and B fit together, and how they are all held in their places by the screw or bolt D.

Figure 6 is a view of one end of the spring E, showing the hole through which the screw D passes.

When all of the parts are in their proper places, as represented in fig. 1, it is to be used as an ordinary truss-pad, except that any desired position of the pad may be obtained by undoing the screw D, and, turning the pad, the screw is again fastened, and the said corrugated edges I and I', locking together as represented in fig. 5, will hold the pad firmly in its place.

It will be found upon trial that a soft-rubber pad, such as herein described, will be much easier to be worn than one of hard rubber, and, at the same time, quite as effective.

What I claim, and desire to secure by Letters Patent, is—

The combination of the soft-rubber pad A, its interior metallic support B', the stem B, and the corrugated metallic edges I and I', for the purpose substantially as herein set forth.

In testimony that I claim the foregoing specification, I have hereunto set my hand this 21st day of June, 1870.

Witnesses:

GEO. H. ZIEGLER,  
O. J. R. HANNA.

H. R. ALLEN.