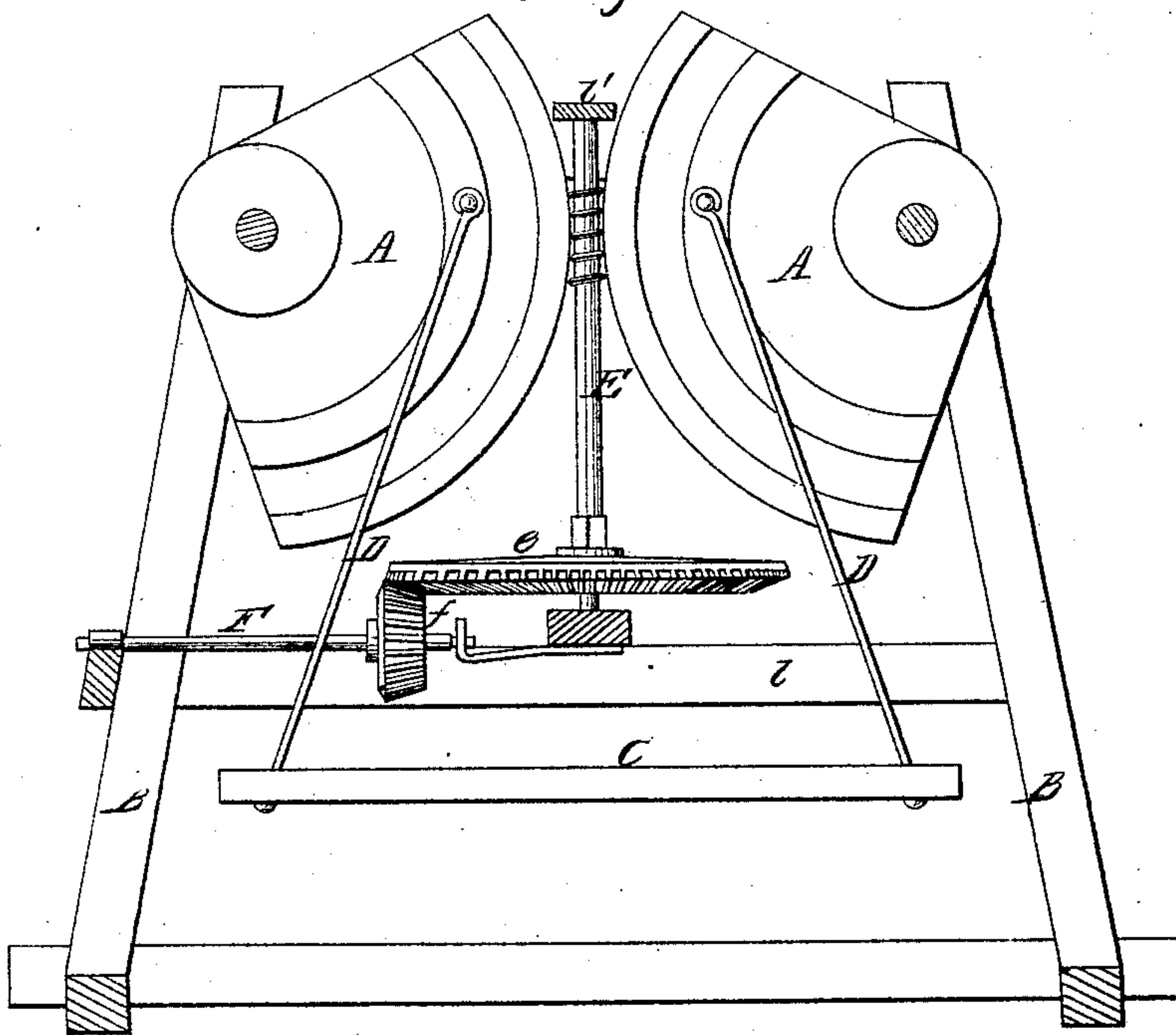


*E. L. Morse,*

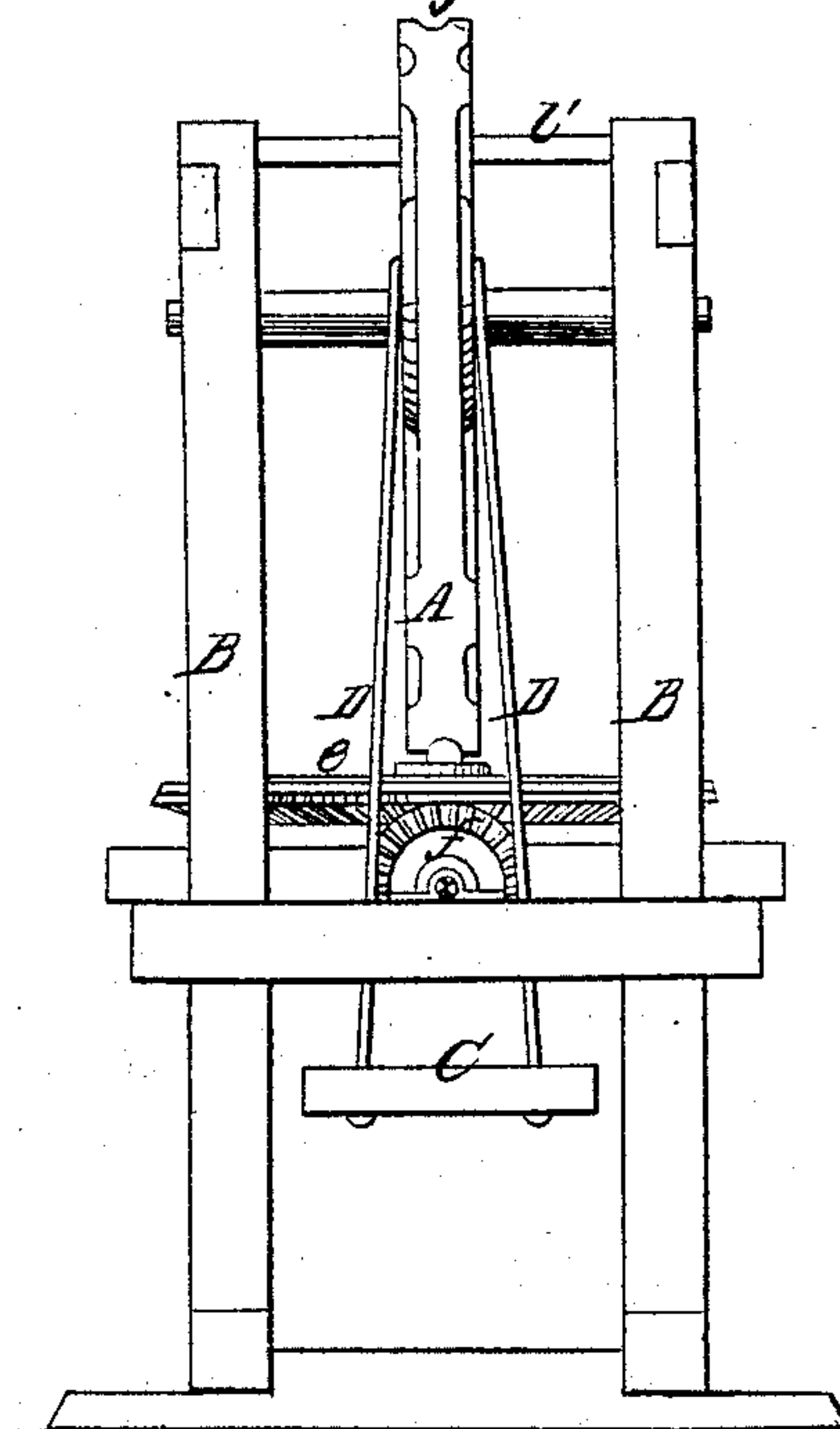
*Cotton Press.*

*N<sup>o</sup> 83,783.*

*Fig. 1. Patented Nov. 3, 1868.*



*Fig. 2.*



*Witnesses:*  
*H. Paul*  
*R. Simon*

*Inventor:*  
*E. L. Morse*  
*By his atty*  
*M. Randolph & Co.*



EDMUND L. MORSE, OF ST. LOUIS, MISSOURI.

*Letters Patent No. 83,783, dated November 3, 1868.*

**IMPROVED COTTON-COMPRESS.**

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, EDMUND L. MORSE, of the city of St. Louis, in the county of St. Louis, and State of Missouri, have made certain new and useful Improvements in Compressing-Machines for Cotton, Hemp, and similar materials; and I do hereby declare that the following is a full and clear description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention relates to an improvement upon a similar press patented to me on the 16th day of April, A. D. 1867, and consists in a new arrangement of the screw which actuates the sectors, and by them lifts the lower platen.

To enable those skilled in the art to make and use my improved press, I will proceed to describe its construction and operation.

Figure 1 of the drawings is a longitudinal sectional elevation of the improved press.

Figure 2 is an end elevation of the same.

The sectors A are mounted on a frame, B, and are attached to the lower platen-beam C by means of the connecting-rods D, the same as in my former machine, and consequently I secure in this machine all the advantages of the progressive-lever system that were peculiar to the former machine.

The peripheries of the sectors A A are to be provided with screw-threads, the same as in the former machine, but instead of the horizontal screws gearing into the bottoms of the sectors, as formerly, I employ

one single vertical screw E, which is to be placed between the two sectors, which are to be so located that both of them may gear into the opposite sides of the same screw.

By this arrangement, the step of the screw will rest on top of the upper platen-beam *b*, and a light frame, *b'*, must be erected on top of the frame B, to furnish the upper bearing for the said screw. The screw E is to receive its motion from the driving-shaft F, through the medium of the bevel-wheels *e f*.

By using one single screw, the construction of the press will be somewhat simplified, and the step of the screw E, bearing on the central part of the upper platen-beam, will give it increased strength to resist the immense pressure brought against it.

Having described my invention,

What I claim, is—

The combination of the sector A with the vertical screw E, and its step upon the upper platen *b*, thereby counterbalancing in whole or part, by the thrust of said screw, the upward pressure of the compressed bale, substantially as set forth.

In witness of which invention, I have hereto set my hand, this 24th day of July, A. D. 1867, in the presence of—

EDMUND L. MORSE.

Witnesses:

M. RANDOLPH,  
H. PAUL.