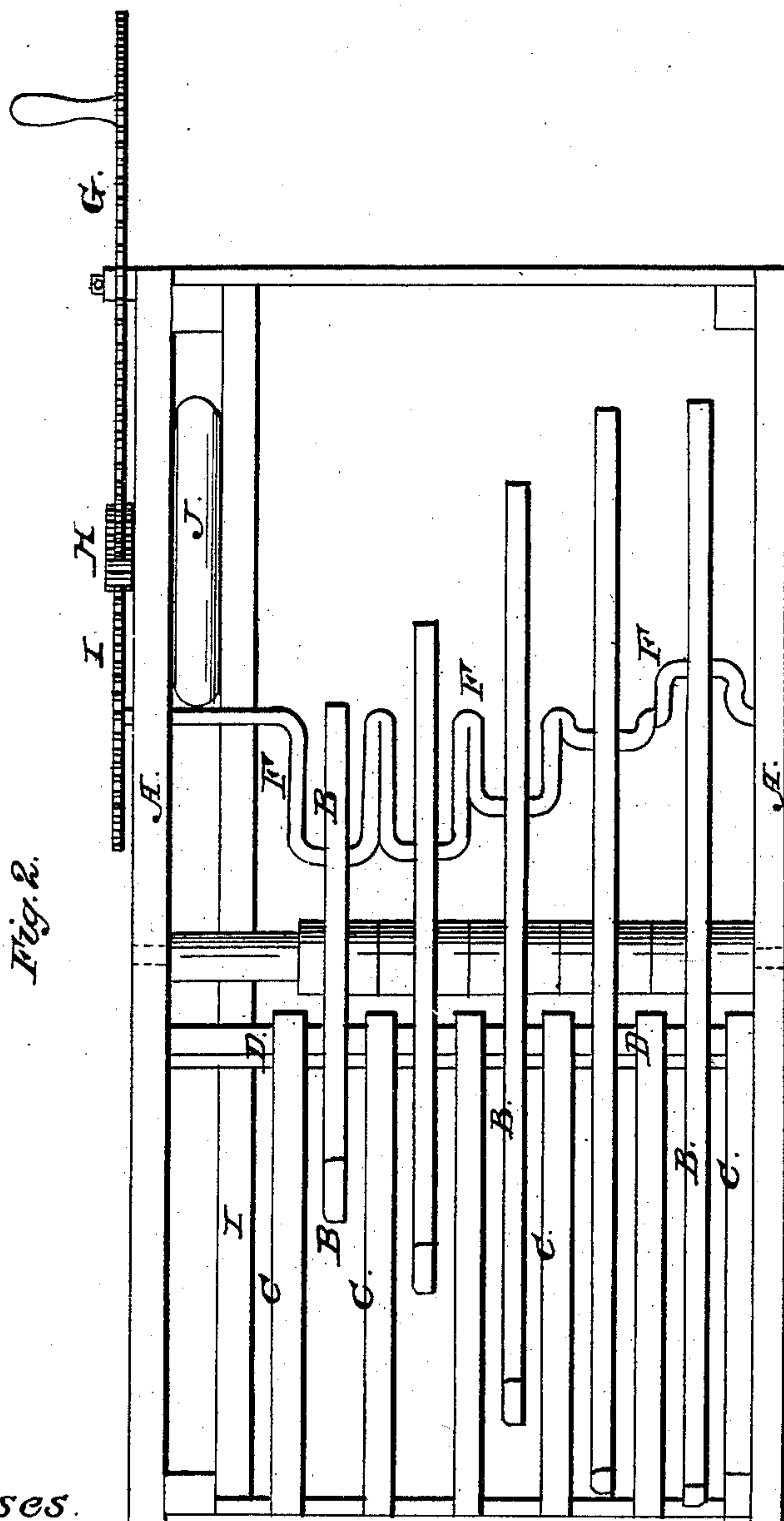


J. KAYE.  
Hemp Brake.

No. 82,123.

Patented Sept. 15, 1868.



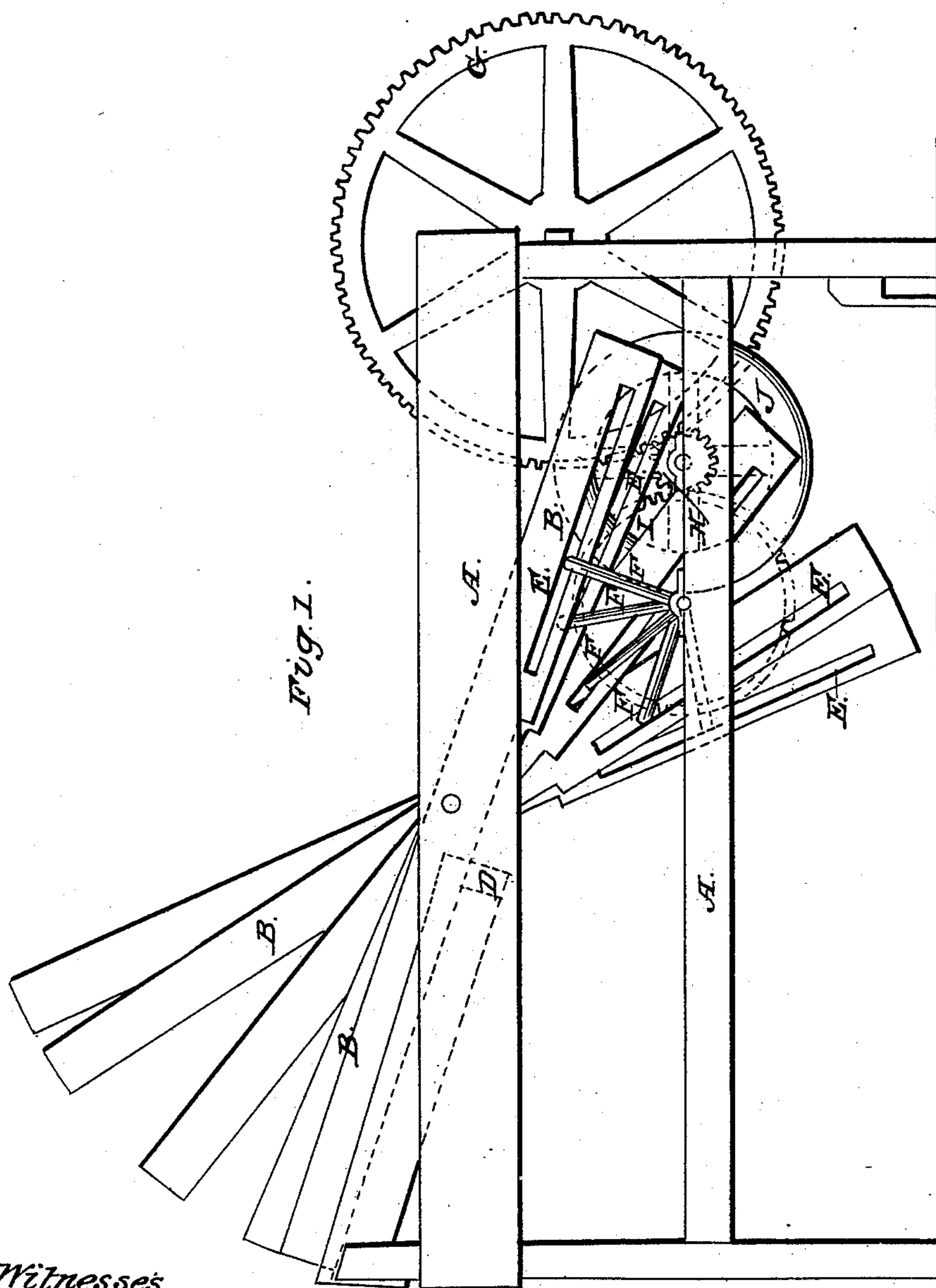
*Witnesses.*  
*G. C. Smith*  
*J. G. Theaker.*

*Inventor.*  
*John Kaye*  
*by J. G. Theaker*  
*his Attorney.*

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Witnesses

*C. H. Smith*  
*J. G. Shearer*

Inventor.

*John Kaye*  
By *J. G. Shearer*  
*his attorney.*

# United States Patent Office.

JOHN KAYE, OF LOUISVILLE, KENTUCKY.

*Letters Patent No. 82,123, dated September 15, 1868.*

## IMPROVEMENT IN HEMP-BRAKES.

*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, JOHN KAYE, of Louisville, in the county of Jefferson, and State of Kentucky, have invented a new and useful Improvement in the Hemp-Brake; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, in which—

Figure 1 is a side elevation.

Figure 2 is a plan view.

The nature of my invention consists in constructing a hemp-brake with a number of beaters, which act successively on the hemp

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

Between the sides of the frame of the machine is placed any desired number of beaters, which are pivoted, near their centres, to the frame A. Between the beaters B are placed short bars C, one end of which rests upon the end of the frame A, and the other upon a cross-piece, D, which is secured to the sides of the machine. In the lower ends of the beaters B are slots E, in which the crank works. There is the same number of cranks as beaters, and all radiate from the same centre, but each one at a different angle, and are journaled to the lower pieces of the frame A, as seen in fig. 1.

Motion is imparted to the cranks by means of gear-wheels G H I, and on the shaft of the intermediate gear H is a fly-wheel, J, as seen in fig. 2.

The operation of the machine is as follows:

The hemp is placed on the top of the bars C, and under the upper ends of the beaters. Motion is imparted to the cranks F through the gear-wheels, and by the cranks to the beaters. By the peculiar arrangement of the cranks when in operation, the beaters strike the hemp successively, one after the other, by this means preventing injury to the hemp, as is the case where two or more of the beaters strike together, and also doing the work much more effectually.

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

The combination of the cranks and beaters, when constructed and operating substantially in the manner and for the purpose herein described.

JOHN KAYE.

Witnesses:

MONROE WILKINSON,  
THOMAS H. MILLER.