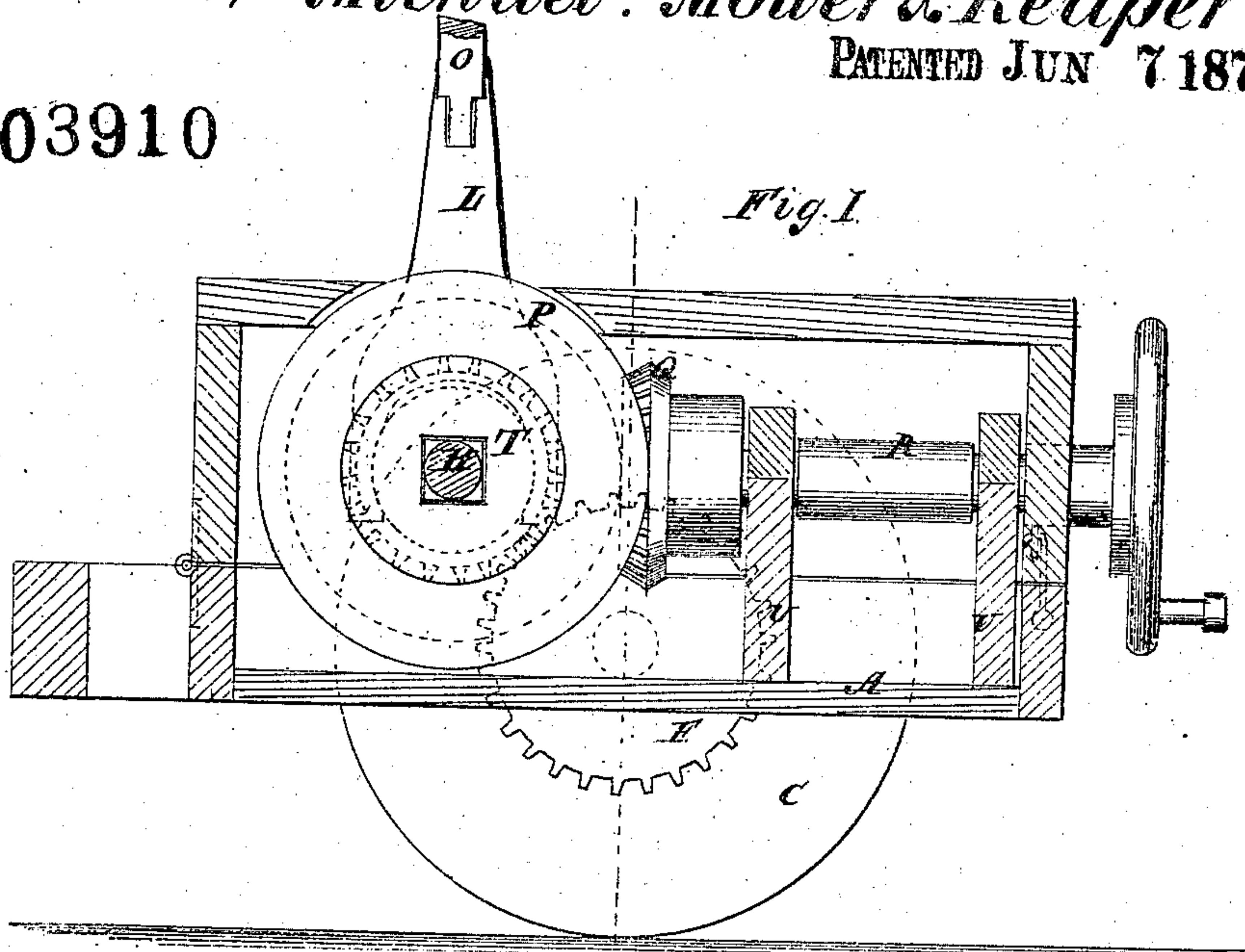
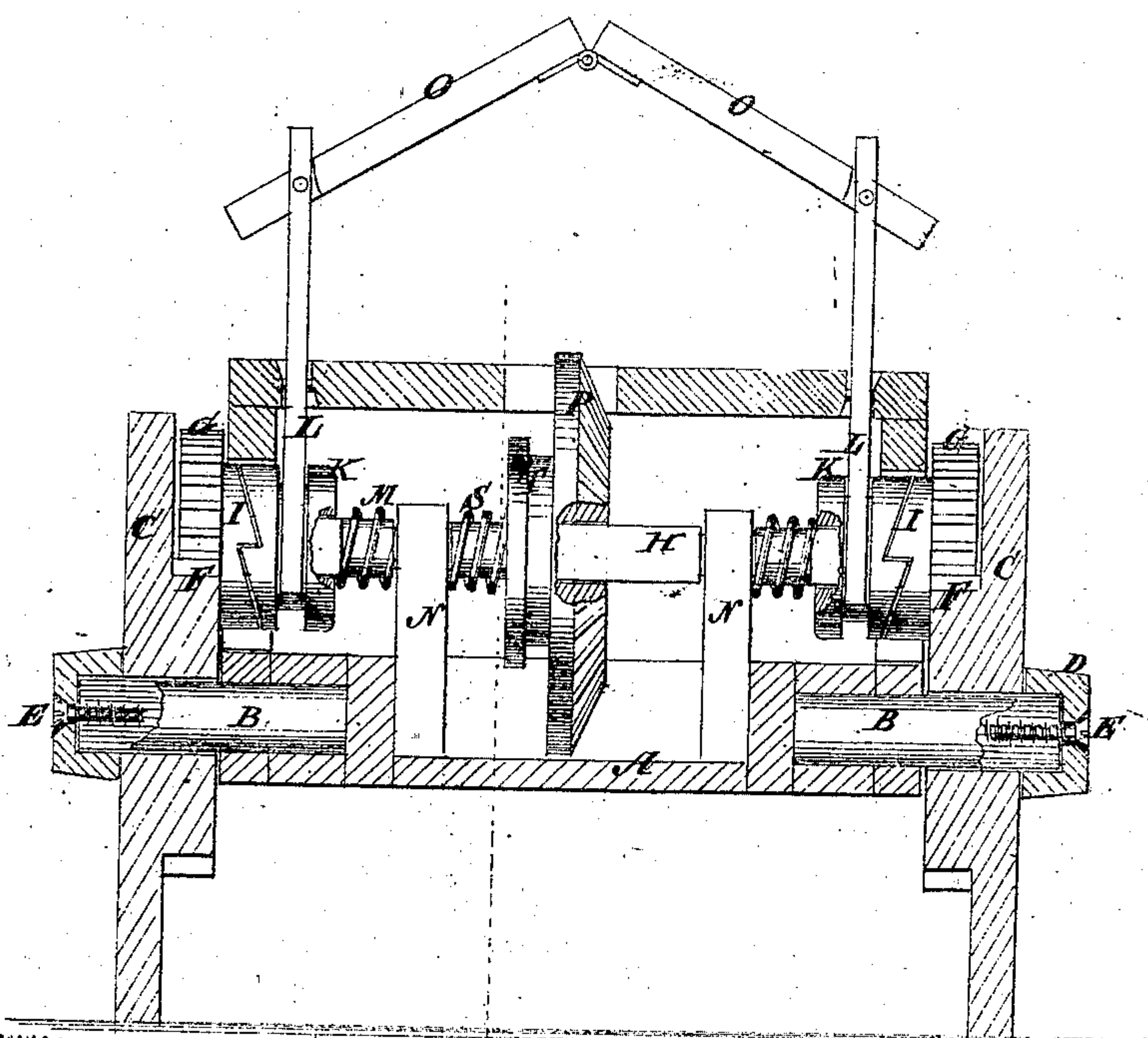


*W<sup>m</sup> Michael. Mower & Reaper.*  
 PATENTED JUN 7 1870

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*Fig. 2.*



Witnesses:

*John Brooks*  
*Edgar Tate*

Inventor:

*Wm. Michael*  
 PER *Wm. Michael*  
 Attorneys.

# United States Patent Office.

WILLIAM MICHAEL, OF MURRYSVILLE, PENNSYLVANIA.

*Letters Patent No. 103,910, dated June 7, 1870.*

## IMPROVEMENT IN CLUTCH MECHANISM FOR HARVESTERS.

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, WILLIAM MICHAEL, of Murrysville, in the county of Westmoreland and State of Pennsylvania, have invented a new and useful Improvement in Mowers and Reapers; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to harvesters, and consists in an improvement in operating the clutch mechanism, which throws the cutters in and out of gear with the actuating power.

Figure 1 represents a longitudinal, and

Figure 2 a transverse section of those portions of harvesters to which my improvement is attached.

K K represent loose sliding crabs, held in conjunction with the corresponding stationary ones, I I, by the springs M M.

L L are levers, pivoted to the frame A, and having forks on their lower ends, which grasp the recessed crabs K, and slide them out of connection with crabs I.

The sliders K are attached, by spline and feather,

or in any other suitable manner, to their shaft, H, while the stationary crabs I and spurs G turn loosely on said shaft, except when I and K are together.

N N represent supports, against which the springs M are pressed by the levers.

O O are flat toggle-arms, turning upon a joint at one end, and pivoted to the ends of levers L L, at equal distances from said joint. These toggles are placed within convenient reach of the driver's feet, so that, without relinquishing his hold upon the driving-reins, he may be able to operate the clutches at any time desired, and almost instantaneously.

Having thus described all that is necessary to a clear understanding of my invention,

What I desire to protect by Letters Patent is—

The flat toggle-arms O O and levers L L, in combination with spring-clutches K M, arranged as and for the purpose described.

WILLIAM MICHAEL.

Witnesses:

WILLIAM P. HUMES,  
S. M. RIDDLE.