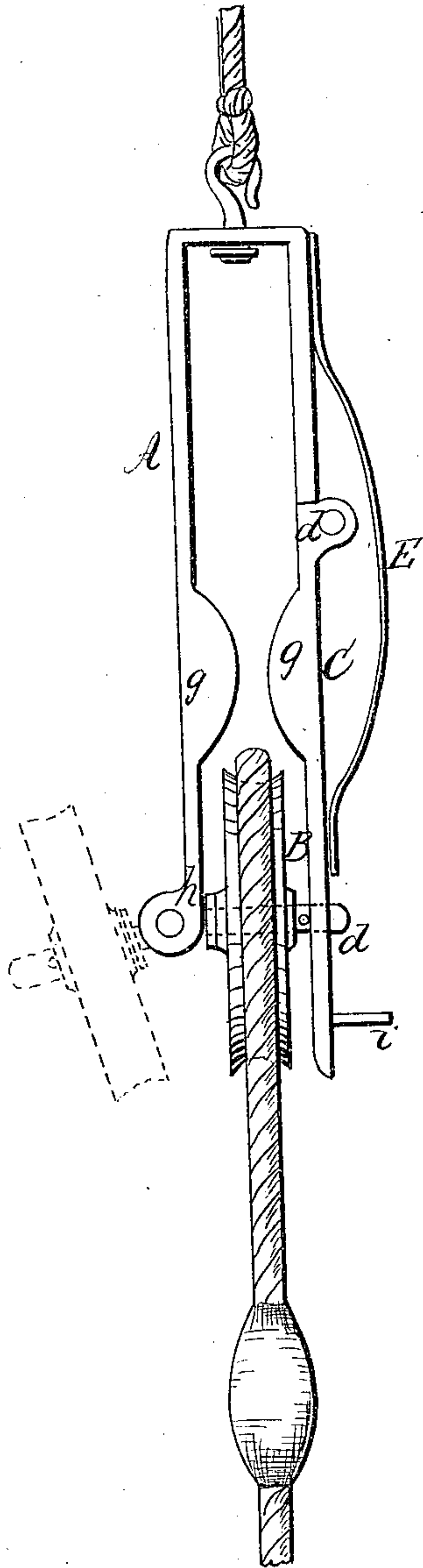


*J. E. Gustin,*

*Block and Tackle.*

*No 79, 653.*

*Patented July 7, 1868.*



*Witnesses*

*Wm A Morgan  
G. C. Cotton*

*Inventor*

*J. E. Gustin*

*per Murray &  
Attorneys*

# United States Patent Office.

JESSE E. GUSTIN, OF ELMIRA, NEW YORK.

*Letters Patent No. 79,653, dated July 7, 1868.*

## SELF-DETACHING PULLEY.

*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, JESSE E. GUSTIN, of Elmira, in the county of Chemung, and State of New York, have invented a new and useful Improvement in Self-Detaching Pulley; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to an improvement in pulleys used for raising heavy weights, whereby the same are made self-acting, or so arranged that the position of the pulley can be changed and the load dumped automatically.

And the invention consists in attaching the pulley to a frame, one side of which is jointed, the jointed part being held in position by a spring, as will be hereinafter more fully described.

The drawing represents a vertical longitudinal view of the pulley and frame, showing the position of the pulley, as when in use, and also as when detached, the latter, with the rope, being shown in red color.

Similar letters of reference indicate corresponding parts.

A is the frame.

B is the pulley, which, in tackle-blocks, is usually termed a sheave.

C is the jointed portion of the frame, which portion supports one of the journals of the pulley, as seen at *d* in the drawing.

The joint is seen at *d'*.

E is a spring, which is secured to the frame at *f*, and which bears upon the part C with a constant pressure.

*g g* represent ledges, on the inside of the frame, which, as the rope is drawn over the pulley, a knotted or enlarged portion of the rope, provided for the purpose, (as seen in red,) will come in contact with these ledges, and force the jointed piece C outward against the spring, sliding it off the journals at *d*.

The other journal is hinged to the frame, as seen at *h*, so that, when the journal at *d* is liberated, the pulley swings down, as seen in the red color, and the rope consequently drops, and the load is discharged.

The pulley can be readjusted in a moment, if desired, and made ready for another load.

This device is more especially intended to facilitate the operation of handling hay on the hay-mow, but it is adapted to other uses, as, for instance, loading and unloading vessels, and many other similar purposes.

*i* is a loop, to which a cord may be secured, for detaching the pulley, when the rope is made of uniform size throughout.

I claim as new, and desire to secure by Letters Patent—

The pulley B, so arranged in a frame or block by joints and hinges that it is made self-detaching, substantially as and for the purposes herein shown and described.

JESSE E. GUSTIN.

Witnesses:

J. BEIRS,

F. H. BRINK.