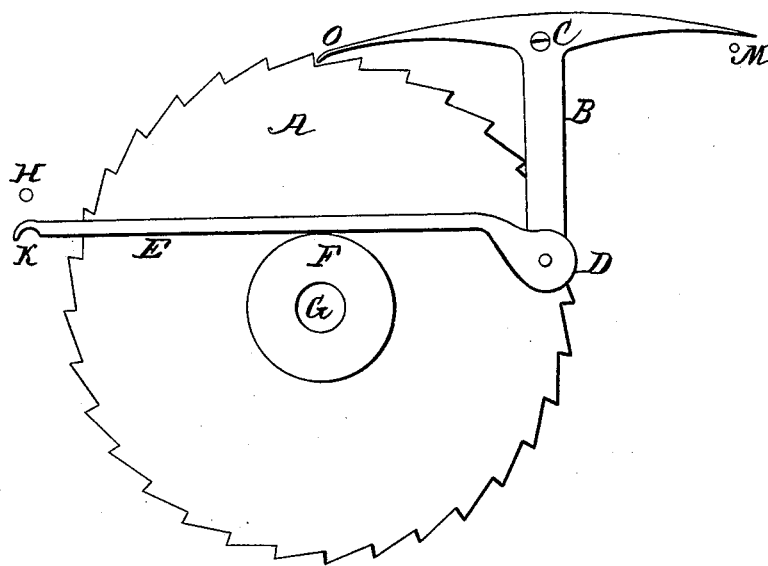


*O. Gilder,*  
*Ratchet and Pawl.*  
*N<sup>o</sup> 46,791.                      Patented Mar. 14, 1865.*



*Witnesses.*  
*A B Bickelmann*  
*G. Seiple*

*Inventor*  
*Obed Gilder*

# UNITED STATES PATENT OFFICE.

OBED GILDER, OF KINSMAN, OHIO.

## IMPROVED AUTOMATIC RATCHET AND PAWL.

Specification forming part of Letters Patent No. 46,791, dated March 14, 1865.

*To all whom it may concern:*

Be it known that I, OBED GILDER, of Kinsman, Trumbull county, Ohio, have invented a new and Improved Self-Acting Pawl and Ratchet to prevent a reverse motion in sewing machinery and other machinery; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings and letters of reference marked thereon.

A is a ratchet-wheel placed on the shaft of any machinery which is intended to revolve in one direction only.

C is a pawl shaped somewhat like a letter T, and hung on a screw at C.

F is a break-roller attached to the ratchet-wheel A and fastened on the same shaft G. This roller may be made of leather or vulcanized india-rubber.

E is a break-bar or lever attached to the pawl C by a pin at D. This break-bar or lever rests on the roller F, and when the ratchet-wheel A revolves from the right to the left moves the break-bar to the left, of course drawing the part D to the left, which lifts the point

O from the wheel A. Reverse the motion, or attempt to do so, and the bar E is moved to the right, dropping the point O on the wheel A, which catches in the ratchets and prevents the wheel A, and of course the shaft G, from revolving in that direction.

By this invention a ratchet can be applied to any machine, which only rests on the ratchet-wheel when it is required to do so, and thus prevents the noise of the pawl dragging on the ratchets—a matter very desirable in sewing-machines. The bar E can be lifted on the pin H when desired.

What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

The pawl C, the lever or break-bar E, and break-roller F, when the same are constructed as described in the aforesaid combination, for the purposes set forth.

OBED GILDER.

Witnesses:

A. B. RICHMOND,  
GEO. SEIPLE.