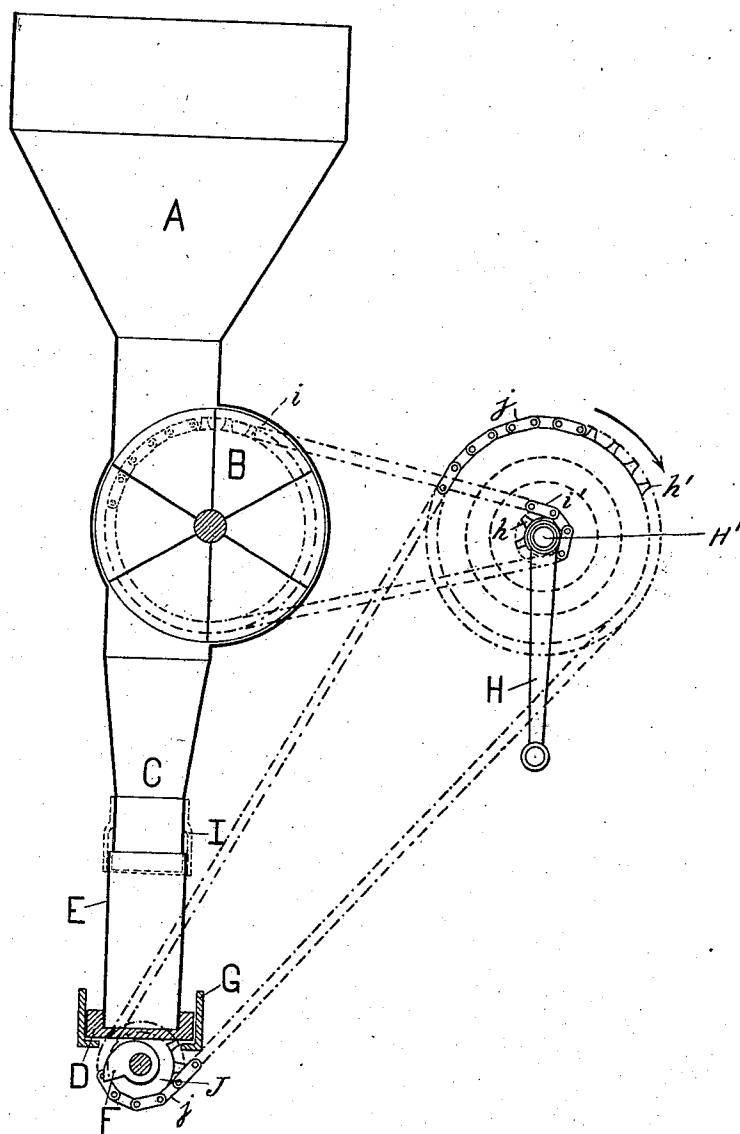


No Model.)

M. BIELEFELDT.  
CARTRIDGE LOADING MACHINE.

No. 504.699.

Patented Sept. 12, 1893.



Witnesses

*George H. Bliss.*  
*W. Harvey Muzzey.*

Inventor  
Max Bielefeldt.

By *Attorney*  
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# UNITED STATES PATENT OFFICE.

MAX BIELEFELDT, OF COSWIG, GERMANY.

## CARTRIDGE-LOADING MACHINE.

SPECIFICATION forming part of Letters Patent No. 504,699, dated September 12, 1893.

Application filed May 1, 1893. Serial No. 472,584. (No model.)

*To all whom it may concern:*

Be it known that I, MAX BIELEFELDT, doctor of philosophy, a subject of the German Emperor, residing at Coswig, in the Duchy of Anhalt, German Empire, have invented certain new and useful Improvements in Apparatus for Manufacturing Cartridges; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to machines for charging cartridges with explosive material; and it consists in the novel construction and combination of the parts hereinafter fully described and claimed whereby the charges in the cartridges are rendered equal in density and quantity.

The drawing is a sectional side view of the operative parts of a machine constructed according to this invention.

A is the receptacle for the explosive.

B is a revoluble measuring wheel divided into compartments of equal size.

C is a funnel below the measuring wheel.

E is a cartridge.

D is a support for the lower end of the cartridge to rest on.

G is a guide for the support D to slide in.

F is a revoluble cam arranged below the support D.

H is an ordinary crank handle mounted on a shaft H' upon which are secured the chain wheels *h* and *h'*.

A chain wheel *i* is secured on the shaft of the measuring wheel and is operatively connected with the wheel *h* by the drive chain

*i'*. A chain wheel J is secured on the cam shaft, and is operatively connected with the wheel *h'* by the drive chain *j*.

I is a guide which may be secured to the lower end of the funnel around the upper end of the cartridge, if desired.

The chain gearing is so proportioned that the cam gives each charge a certain pre-arranged number of jolts in its cartridge. This settles the charge in each cartridge to a certain density, and insures a uniformity in the subsequent explosions of all the cartridges.

What I claim is—

1. In a cartridge filler, the combination, with a receptacle for the explosive, of a measuring device, a support for the cartridge, a jolting cam under the said support, and driving mechanism operating the said measuring device and the cam simultaneously, whereby the cartridges receive charges of equal quantity and density, substantially as set forth.

2. In a cartridge filler, the combination, with a receptacle for the explosive, of a measuring wheel, the support for the cartridge, the stationary guides, the jolting cam under the said support, a driving shaft provided with means for revolving it and the chain wheels *h* and *h'*, the chain wheels *i* and J for driving the measuring wheel and the cam respectively, and the drive chains *i'* and *j*, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

MAX BIELEFELDT.

Witnesses:

W. HAUPT.

A. BIELEFELDT