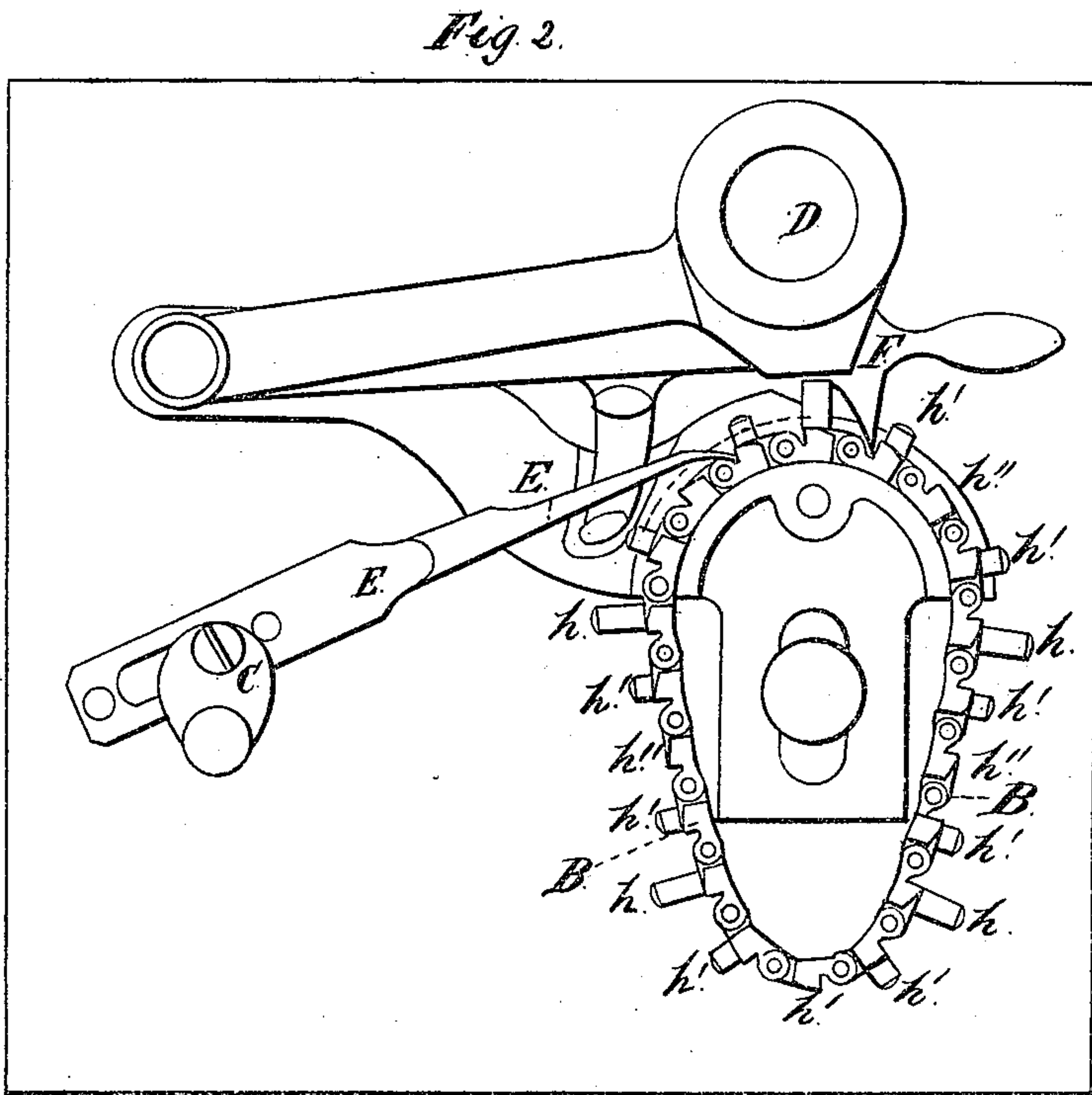
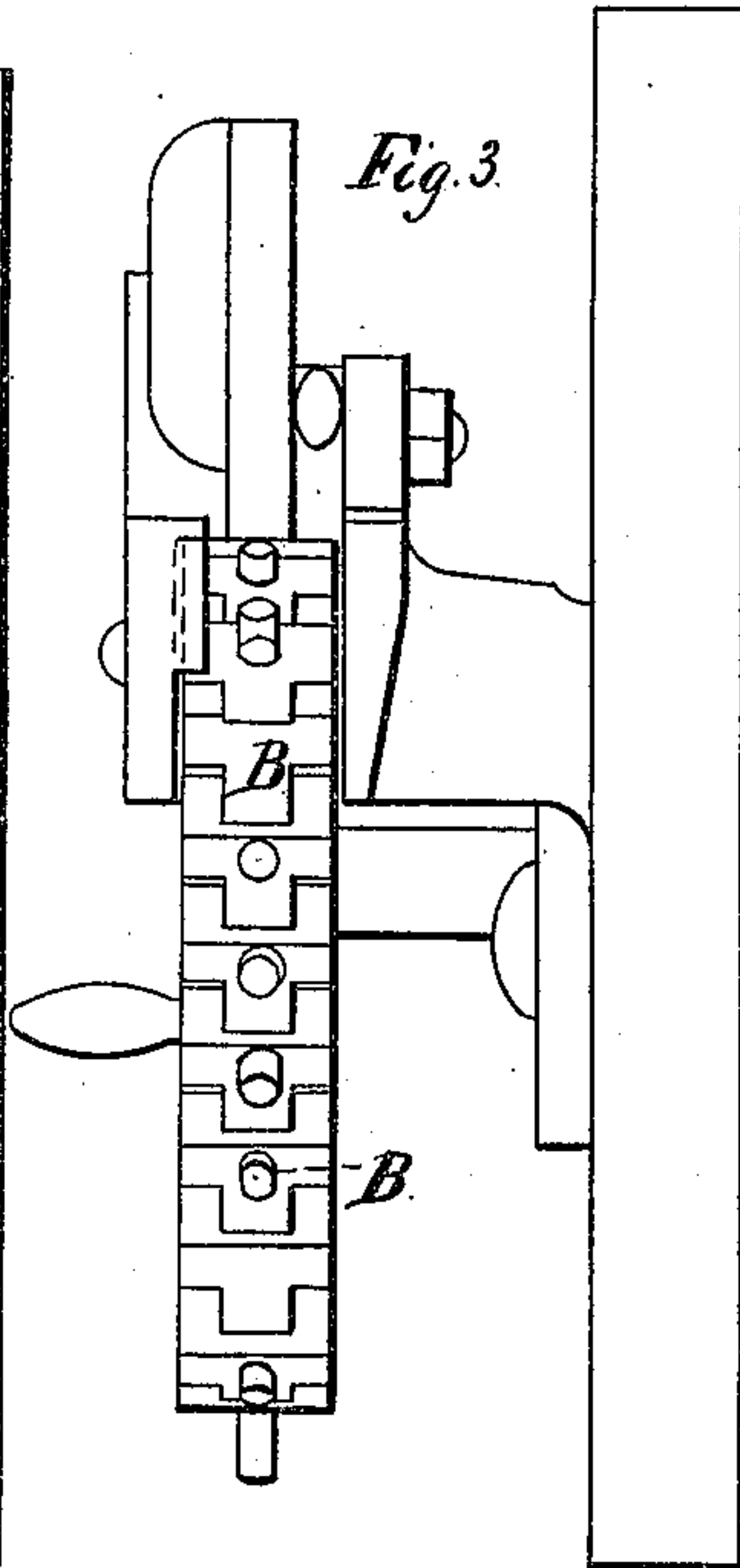
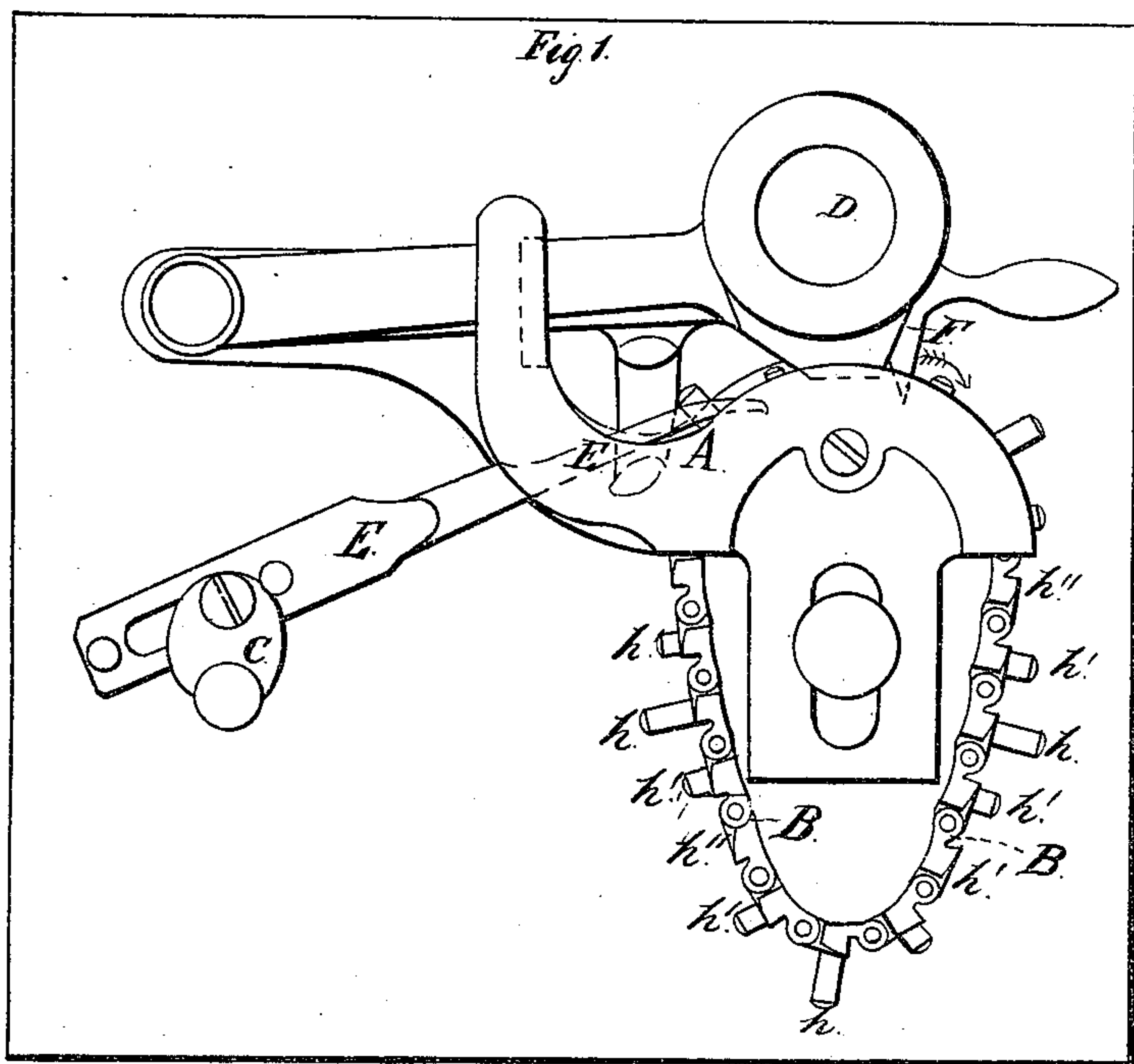


*B. H. Jenks.*  
*Loom Attachment.*

*N<sup>o</sup> 29,283.*

*Patented Jul. 24, 1860.*



*Witnesses:*

*J. G. Mini Child*  
*J. D. Baquet*

*Inventor:*

*Barton H. Jenks*

# UNITED STATES PATENT OFFICE.

BARTON H. JENKS, OF PHILADELPHIA, PENNSYLVANIA.

## PATTERN-CHAIN FOR LOOMS.

Specification of Letters Patent No. 29,283, dated July 24, 1860.

*To all whom it may concern:*

Be it known that I, BARTON H. JENKS, a resident of Philadelphia, in the State of Pennsylvania, have made a new and useful  
5 Improvement in Pattern-Chains for Looms; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specifica-  
10 tion, in which—

Figure 1, represents a side view of the chain. Fig. 2, represents the same with the guard A removed. Fig. 3, represents an end view of the same.

15 Hitherto, wheels, with pins upon their peripheries, have been used for the purpose of altering the pattern boxes of looms, but these are liable to the objection that the length of their peripheries cannot be  
20 changed, and odd patterns produced. The length of the chain can easily be altered by introducing new links, and hence is not liable to this objection. Where chains have been used, they have to be connected, by  
25 lugs upon their under surface, with a wheel operated in the usual manner. This plan is also subject to a very serious objection. The lugs must fit accurately into holes in the wheel. The continual friction soon wears  
30 these so that the chain will be apt to slip.

The nature of my invention consists in dispensing with the wheel entirely, and operating directly upon the chain itself. This is

accomplished by making the outer surface of the chain, a series of cogs.

35

B, B, is the chain passing over the guard; E, E, a pawl worked by means of an eccentric C, and which pushes the chain around. This, for every revolution of the eccentric, drives forward the chain one  
40 tooth.

*h, h'*, etc., are lugs placed around the circumference of the chain, and their use is to raise the lever D, and thus change the pattern-box.

45

The drawing represents the chain as arranged for a pattern of 3 colors. The first being produced when D, rests upon the chain itself. The second, when upon the short lugs *h'*. The third, when upon the  
50 longer lugs *h*. Any number of colors are produced by the use of lugs of different length.

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

The use of a pattern chain B, B, constructed with teeth upon its outer surface and operated directly by the pawl D, the whole being arranged and operating sub-  
60 stantially as herein set forth.

BARTON H. JENKS.

Witnesses:

J. G. MINI CHILD,  
F. D. BAQUET.