

C. J. APPLETON.
KNITTING-MACHINE.

No. 171,466.

Patented Dec. 28, 1875.

Fig. 1.

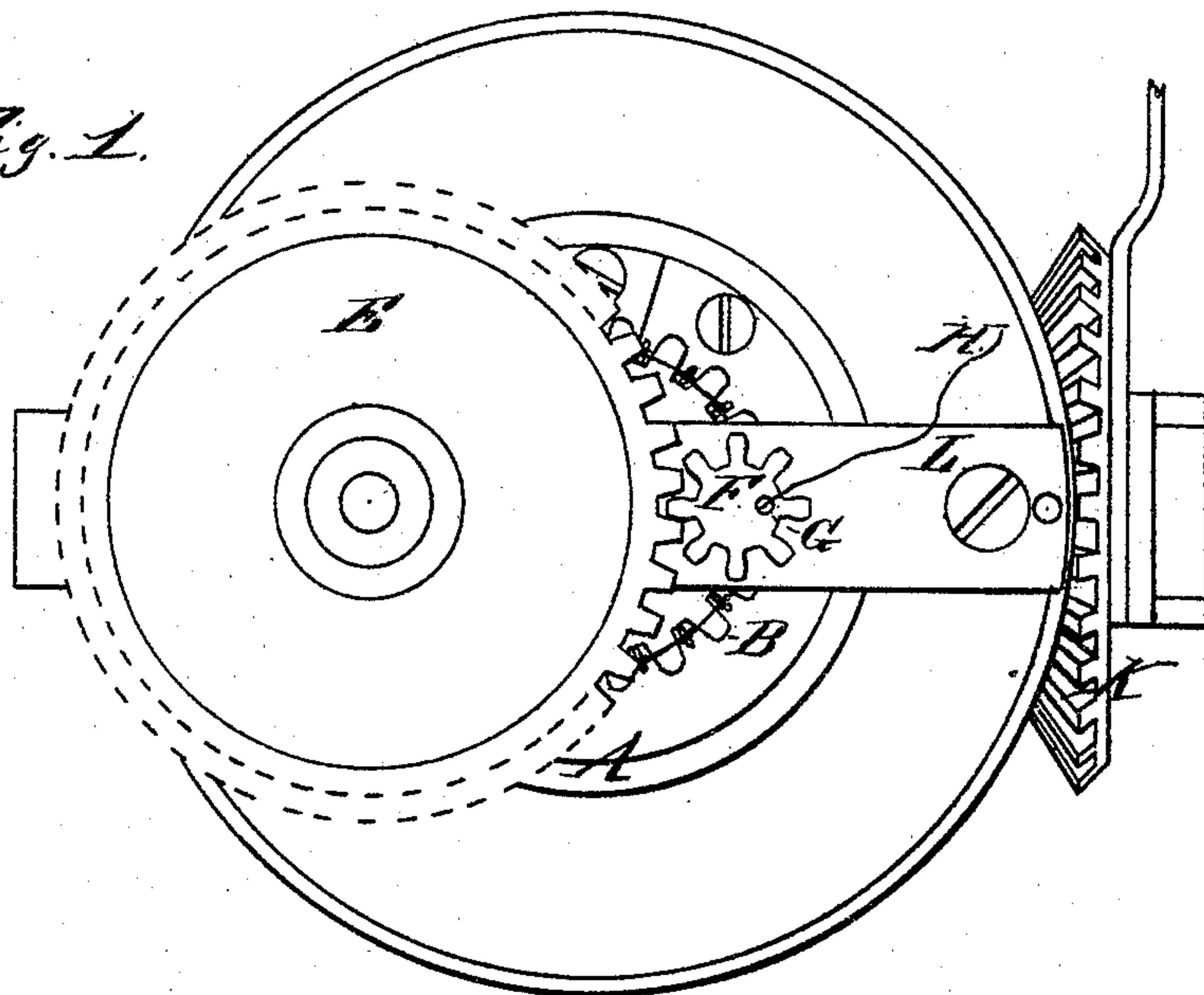
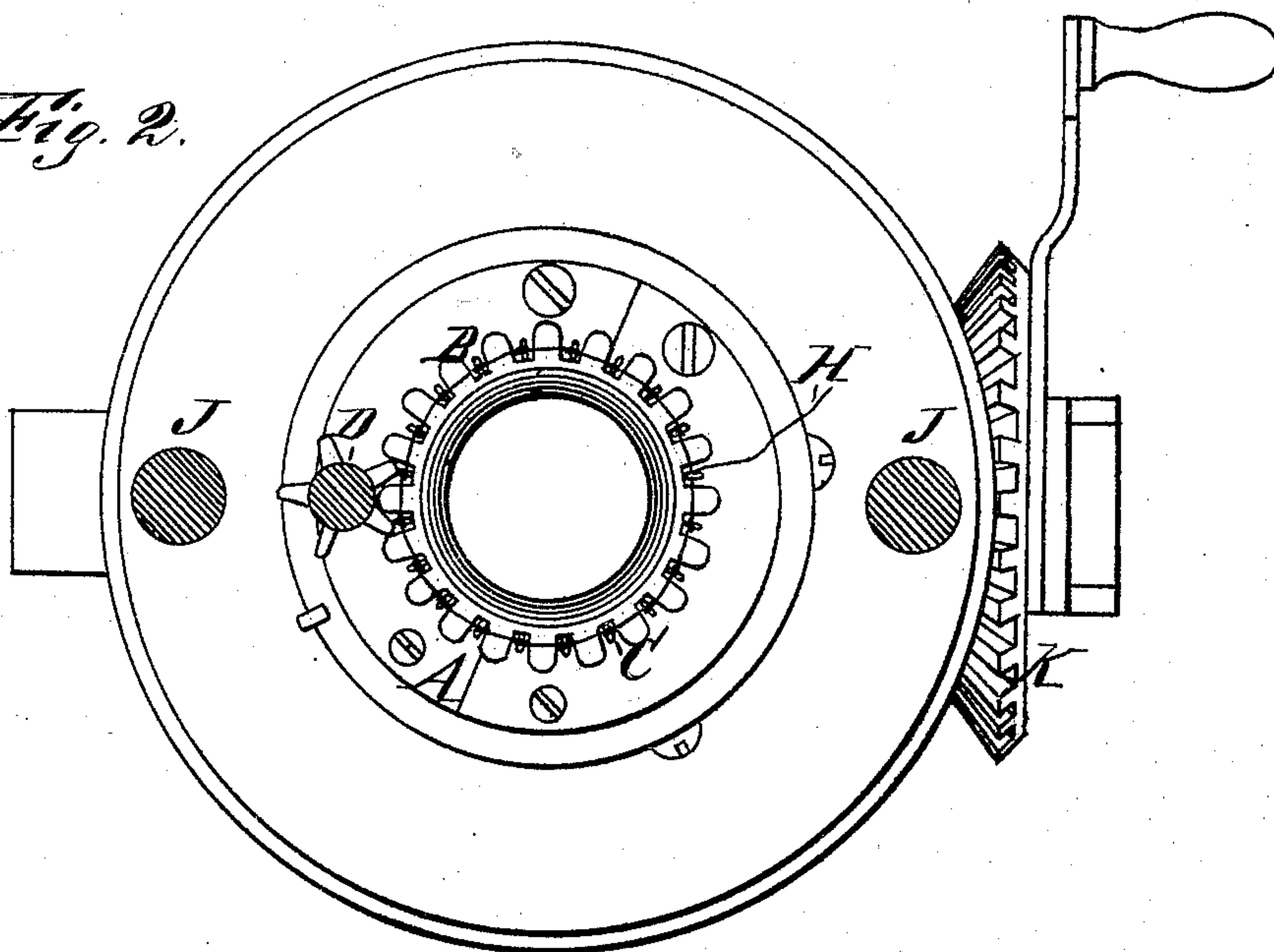


Fig. 2.



Witnesses
L. J. Gordon
G. W. Ripley

Inventor
Charles James Appleton

C. J. APPLETON.
KNITTING-MACHINE.

No. 171,466.

Patented Dec. 28, 1875.

Fig. 3.

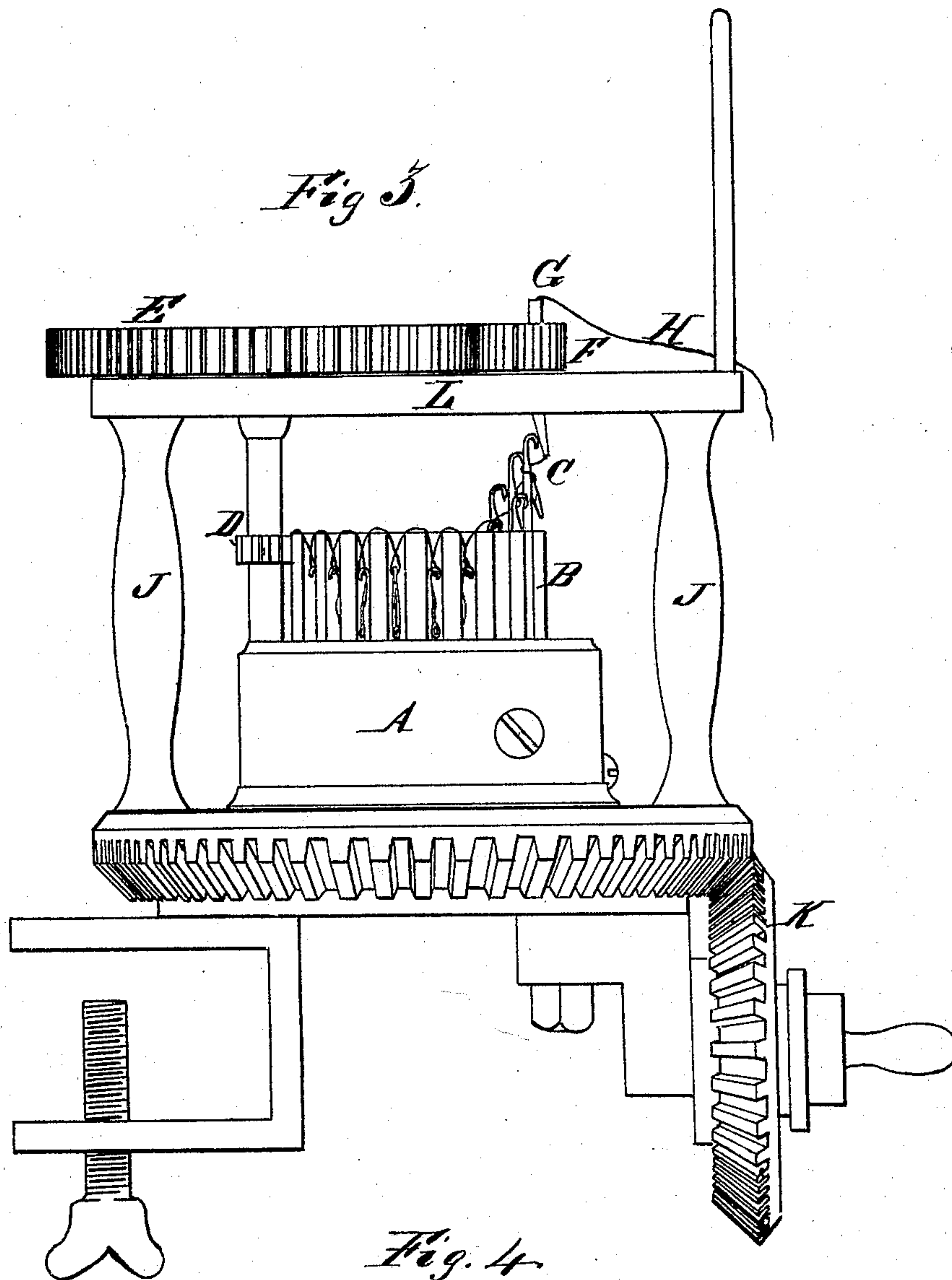
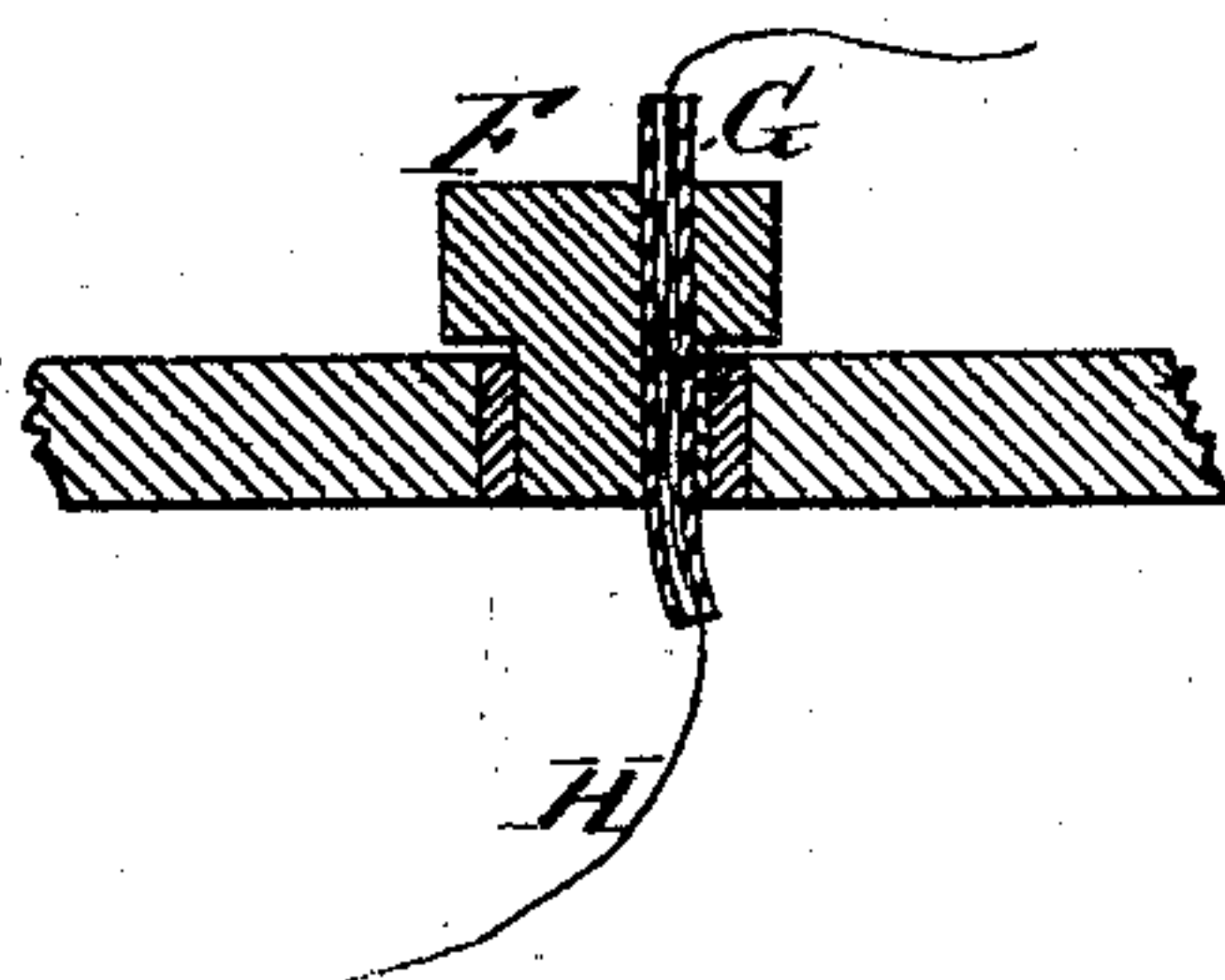


Fig. 4.



Witnesses
S. J. Gordon
G. D. Ripley

Inventor
Charles J. Appleton.

UNITED STATES PATENT OFFICE.

CHARLES J. APPLETON, OF ELIZABETH, NEW JERSEY.

IMPROVEMENT IN KNITTING-MACHINES.

Specification forming part of Letters Patent No. **171,466**, dated December 28, 1875; application filed September 28, 1875.

To all whom it may concern:

Be it known that I, CHARLES JAMES APPLETON, of Elizabeth, Union county, and State of New Jersey, have invented a new and Improved Knitting-Machine; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, and the letters of reference marked thereon, in which the same letter represents the same thing in each figure.

Figure 1 is a top view of my improved knitting-machine; Fig. 2, a top view of the same, with the upper gearing and cross-piece removed; Fig. 3, a side elevation of the machine complete; Fig. 4, a section of the revolving yarn-guide pinion and yarn-guide.

A is the cam-ring; B, the needle-cylinder; C C, the needles; D, the cylinder pinion and shaft; E, the intermediate gear; F, the revolving yarn-guide pinion; G, the yarn-guide; H, the yarn; J J, the pillars; K, the driving-pinion; L, the cross-piece.

The object of my invention is to produce a new knitting-machine, employing a single set of needles, to produce work which will not ravel from the bottom up when cut, the bottom edge being left in the form of a welt or selvage. This is accomplished by a series of needles

supplied from a rotating yarn guide or carrier, which revolves around each needle, winding the yarn once around the same at each revolution of the guide. Each needle, in its turn, is then drawn down, with the yarn so wound upon it, through the last preceding loop, whereby such a twist is given to each loop that the yarn is crossed upon itself, so that it will not ravel when cut.

The action of the machine is this: The loops being on the needles, yarn H is run through yarn-guide G, the end left so a needle may catch it. Turning pinion K rotates cam-ring A, which rotates cylinder-pinion D, which rotates intermediate gear E, and thereby pinion F and yarn-guide G, the yarn from which guide is consequently wound about each needle as it passes around it before the needle descends.

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

The combination of needle-cylinder B, cam-ring A, needles C C, and revolving yarn-guide G, operating together substantially as and for the purposes described.

CHARLES JAMES APPLETON.

Witnesses:

S. J. GORDON,
G. D. RIPLEY.