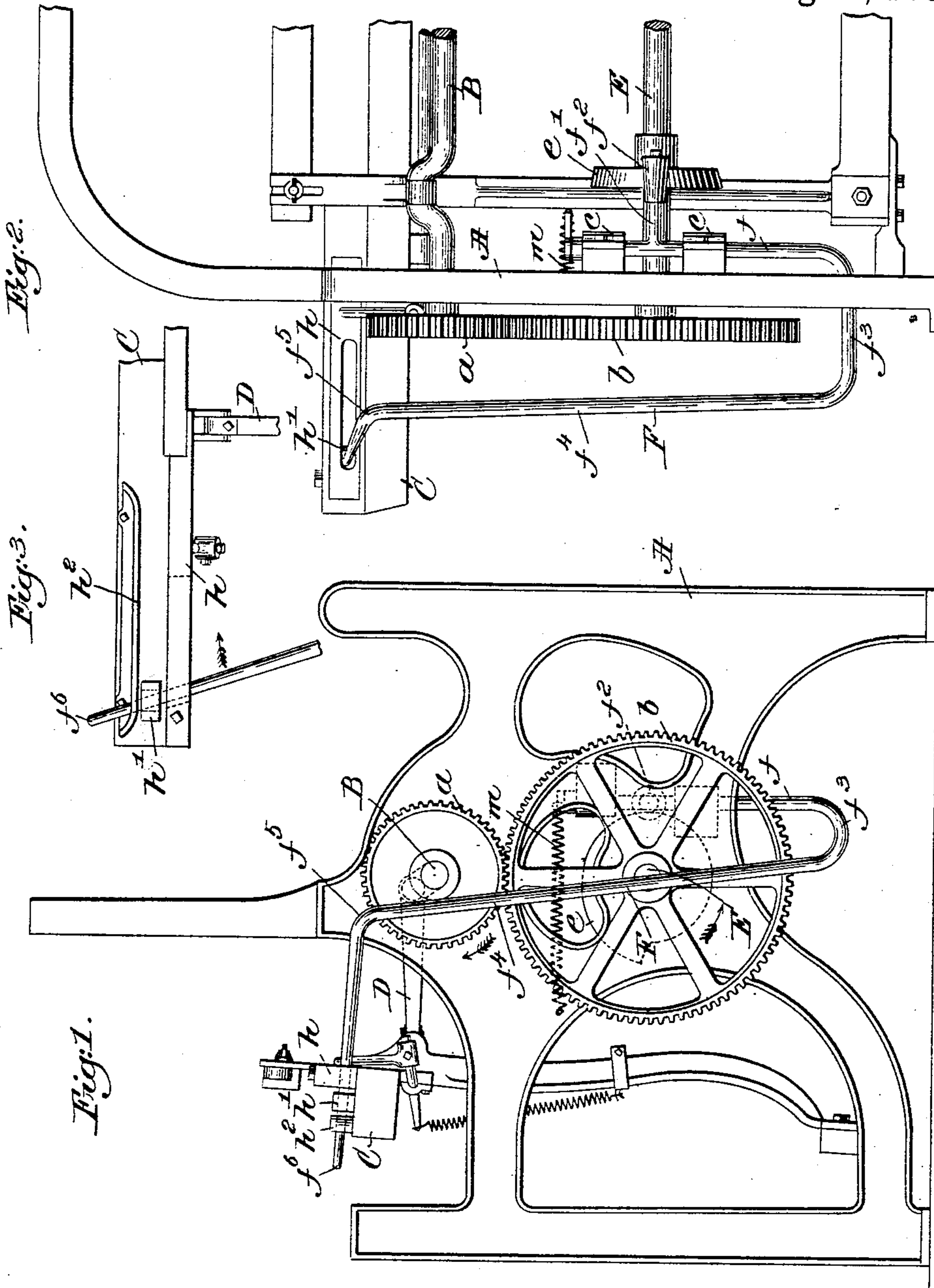


(No Model.)

D. DURKIN.  
PICKER MECHANISM FOR LOOMS.

No. 587,653.

Patented Aug. 3, 1897.



witnesses.

Fred S. Gummel.

Thomas J. Drummond.

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# UNITED STATES PATENT OFFICE.

DANIEL DURKIN, OF WOONSOCKET, RHODE ISLAND, ASSIGNOR TO THE  
NORTHROP LOOM COMPANY, OF SACO, MAINE, AND HOPEDALE, MAS-  
SACHUSETTS.

## PICKER MECHANISM FOR LOOMS.

SPECIFICATION forming part of Letters Patent No. 587,653, dated August 3, 1897.

Application filed July 27, 1896. Serial No. 600,601. (No model.)

*To all whom it may concern:*

Be it known that I, DANIEL DURKIN, of Woonsocket, county of Providence, State of Rhode Island, have invented an Improvement in Picking Mechanism for Looms, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

10 This invention has for its object the production of novel and improved picking mechanism, whereby the picker may be actuated to throw the shuttle across the loom.

15 Figure 1, in side elevation, represents a sufficient portion of the right-hand side of a loom to enable my invention to be understood; Fig. 2, a rear view of the part of the loom shown in Fig. 1, and Fig. 3 is a detail view to be referred to.

20 The loom-frame A, the crank-shaft B, the lay C, the connecting-rods D between it and the crank-shaft, the under or picking shaft E, and the gearing  $a$   $b$ , connecting the said shaft with the crank-shaft, are and may be 25 all as usual, so need not be herein further described.

Upon the inside of the loom-frame I have located bearings  $c$ , in which I have placed the arm  $f$  of a picker-rod F, the said arm having 30 projecting from it a finger  $f'$ , upon which is a roll  $f^2$ , which is normally kept pressed by a suitable spring  $m$  toward the picking-bowl  $e$  on the shaft E.

35 The rod F is bent at  $f^3$  outwardly through the loom side and is then carried upwardly outside the loom side, as at  $f^4$ , to the point

$f^5$ , where the rod is again bent horizontally forward at an inclination, as shown in Fig. 2. The substantially horizontal extremity  $f^6$  of the rod extends through a slot in the binder 40  $h$ , forming one side of the shuttle-box, and through the usual picker  $h'$  in the shuttle-box and through the stationary side  $h^2$  of the shuttle-box. The spring  $m$  acts to normally keep the roll  $f^2$  against the cam  $e'$ . 45

Heretofore the picking mechanism has consisted of a number of pieces or parts jointed together, and most commonly a wooden staff is set into an iron rocker, and through cams, straps, and levers the staff is given a move- 50 ment.

In this my invention I have greatly simplified the apparatus, and the same may be operated expeditiously and easily.

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

The combination with a picker, and a cam-shaft having a cam, of a bent rod having at or near one end a roll acted upon by said cam, 60 the opposite end of the rod being extended through one side of the shuttle-box and into the picker to operate the same to throw the shuttle, substantially as described.

In testimony whereof I have signed my 65 name to this specification in the presence of two subscribing witnesses.

DANIEL DURKIN.

Witnesses:

JOSEPH SWINDELLS,  
JOHN WILSON.