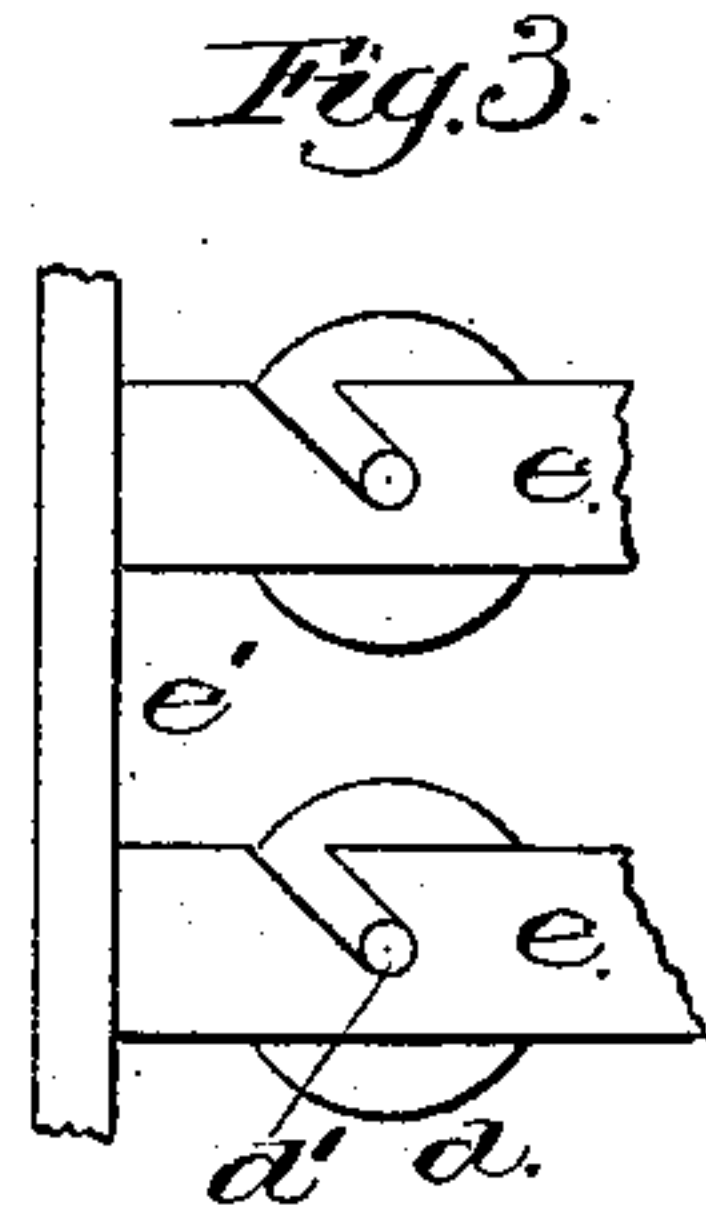
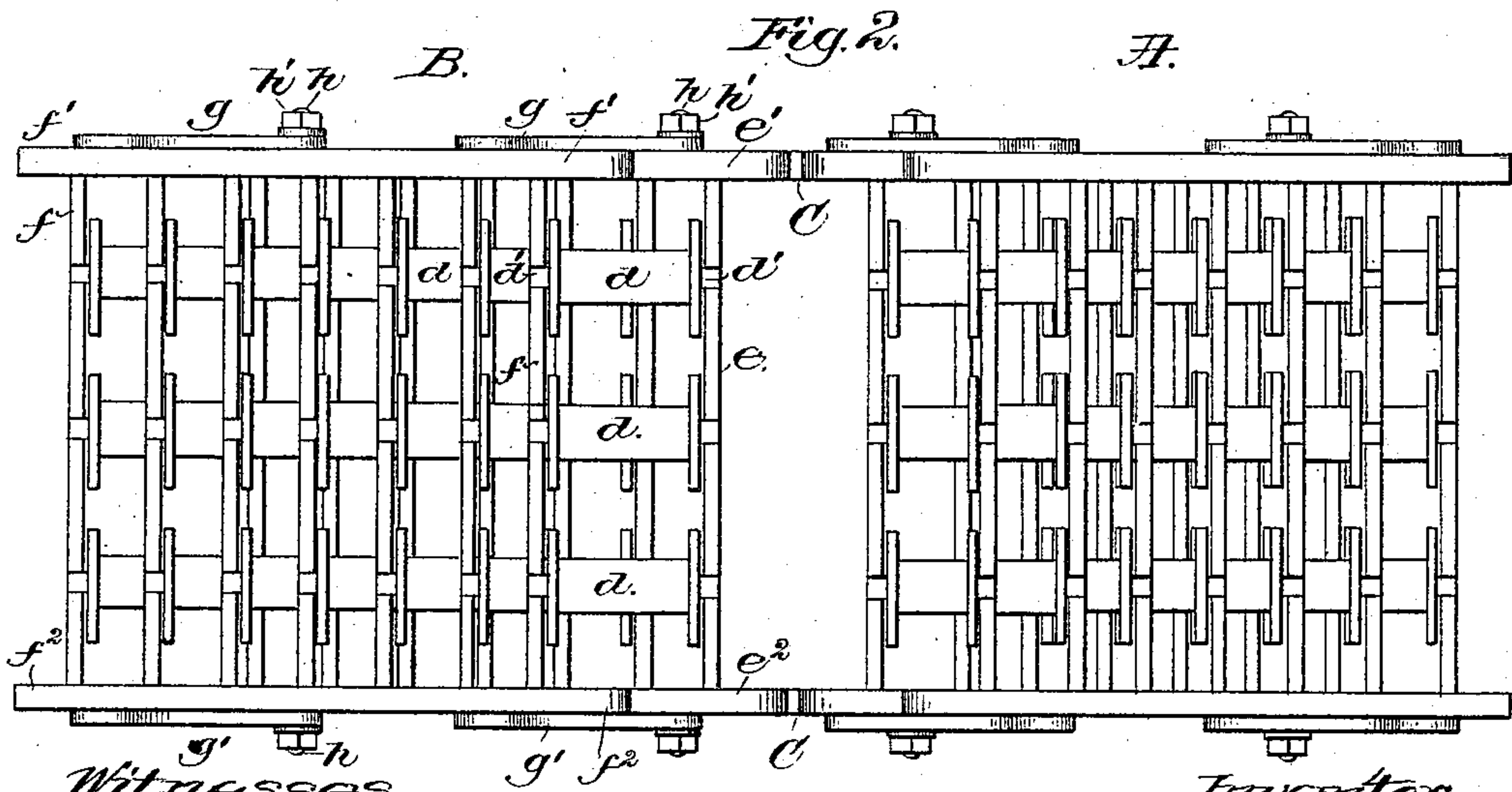
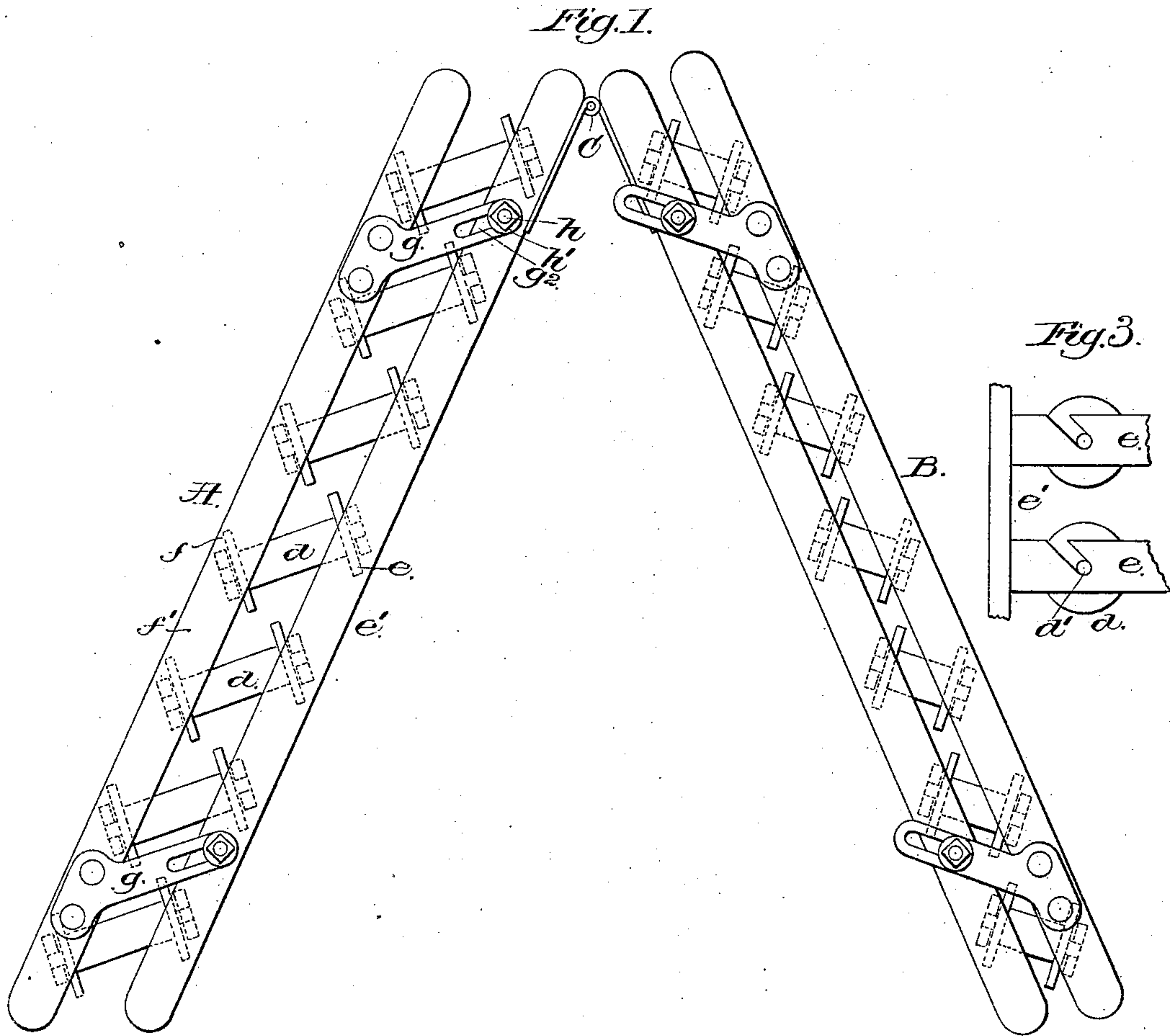


(No Model.)

G. L. TARR.  
CREEL FOR SPOOLING AND WARPING MACHINES.

No. 287,338.

Patented Oct. 23, 1883.



Witnesses.  
John F. C. Printz  
Fred A. Powell.

Inventor.  
Gardner L. Tarr.  
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attys.

# UNITED STATES PATENT OFFICE.

GARDINER L. TARR, OF HOPEDALE, MASSACHUSETTS, ASSIGNOR TO THE  
HOPEDALE MACHINE COMPANY, OF SAME PLACE.

## CREEL FOR SPOOLING AND WARPING MACHINES.

SPECIFICATION forming part of Letters Patent No. 287,338, dated October 23, 1883.

Application filed March 19, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, GARDINER L. TARR, of Hopedale, county of Worcester, State of Massachusetts, have invented an Improvement in  
5 Creels for Spooling and Warping Machines, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

10 Creels for warping-machines as heretofore made have been composed of vertically-placed slotted standards for the end journals of the spools, and the upper ends of each pair of standards have been secured to one horizontal  
15 board and the lower ends to another board, so that the standards, once fixed to the boards holding them always remain in the same position with relation to each other and at the same distance apart.

20 The object of my invention is to so construct the creel that one standard of each pair of standards may be adjusted toward and from the other standard, to adapt the same to receive between them spools of various lengths. To  
25 do this I have attached the upper and lower ends of the standards which support the opposite journals of the spools to separate independent boards, so that the said standards and boards may be adjusted laterally with relation  
30 to each other, as will be described.

Figure 1 is a top view of a spool-holder embodying my invention, the two halves or sections thereof being shown, as adapted to spools of different length; Fig. 2, an end elevation  
35 thereof, looking at it from its hinged or front end; and Fig. 3 a detail of the standards and spools.

The creel is composed of two like halves or sections, A B, hinged together at C, and, being alike, I need to describe but one of them.  
40 The spools *d* have their journals *d'* entered into slots in the standards *e f*. The standards *e*

are mortised or otherwise connected, respectively, at bottom and top with narrow boards *e'* *e''*, and the standards *f* with narrow boards *f'* *f''*. These independent boards *e' f'* and *e'' f''*  
45 are adjustably connected together by the braces *g*, herein shown as attached to the boards *f' f''*, and slotted at *g''*, to receive the screw pins or studs *h*, over which are applied nuts *h'*. By  
50 adjusting toward and from each other the opposite members of the pairs of standards, the distance between the said standards may be readily adapted to the length of the spool being used.

In the half or section A the boards and standards are farther apart than in section B, so the two halves A B show the creel adjusted for  
55 spools of different length. The slotted plate *g* and screw-nut to hold it in place constitute an adjusting or holding device; but I desire it to be understood that the adjusting and holding devices might easily be changed in construction, and yet be within the scope of my  
60 invention. In other creels the narrow boards *e' f'* have been made as one broad piece, and also the narrow boards *e'' f''*.

I claim—

A creel composed of standards *e f*, to support the journals of the spools, boards *e' e'' f' f''*, connected, respectively, with the upper and lower  
70 ends of the said standards, and made adjustable toward and from each other, according to the length of spool to be employed, and devices for holding the parts in adjusted position,  
75 substantially as described.

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

GARDINER L. TARR.

Witnesses:

GEO. A. DRAPER,  
F. J. DUTCHER.