

C. J. ATKINS.
 Draw-Bridge Fastenings.

No. 164,708.

Patented June 22, 1875.

Fig. 1

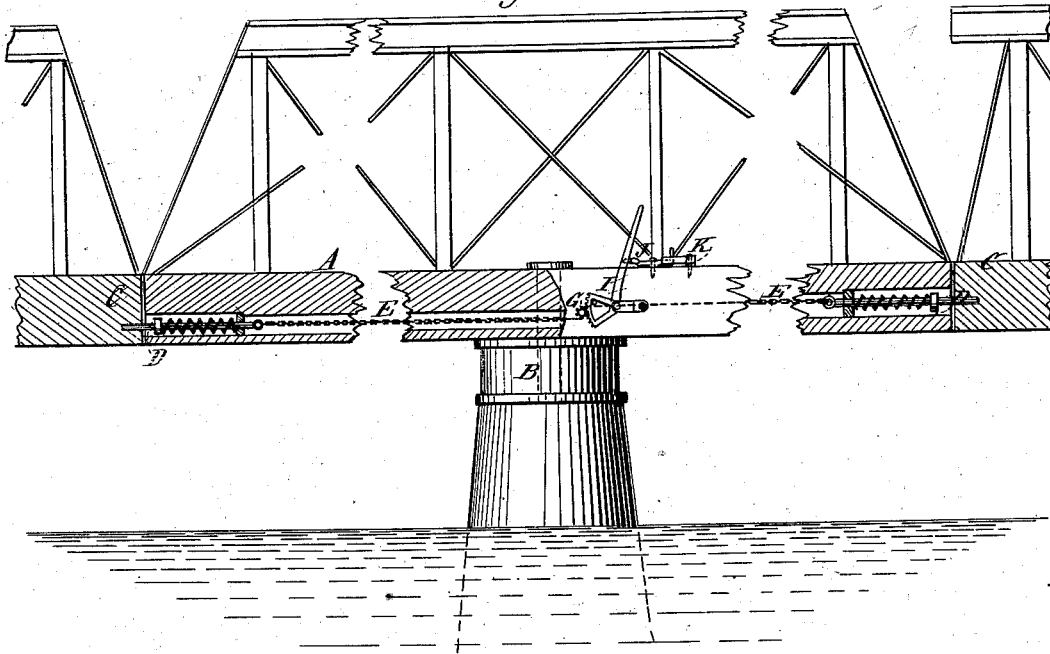
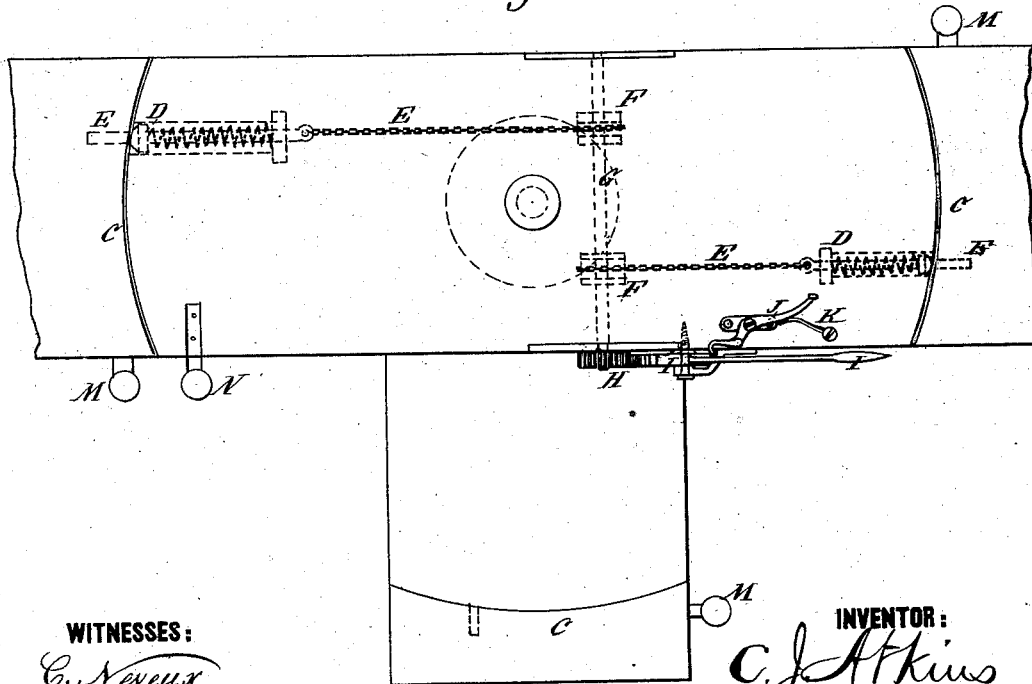


Fig. 2



WITNESSES:
C. Neveu
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 BY *Munnell*
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UNITED STATES PATENT OFFICE.

CARROLL J. ATKINS, OF LOUISIANA, MISSOURI.

IMPROVEMENT IN DRAW-BRIDGE FASTENINGS.

Specification forming part of Letters Patent No. **164,708**, dated June 22, 1875; application filed March 29, 1875.

To all whom it may concern:

Be it known that I, CARROLL J. ATKINS, of Louisiana, in the county of Pike and State of Missouri, have invented a new and Improved Draw-Bridge Fastening, of which the following is a specification:

My invention has for its object to provide simple and efficient means whereby the engineer in charge of the machinery of the draw can readily fasten it to the rests and unfasten it. I propose to have spring-bolts on the draw, with sockets on the rests for these bolts to spring into when they come to the holes, the bolts being connected by rods or chains with apparatus at the engineer's stand, whereby he may set them to spring into the holes at the proper time, and also to draw them out, to disconnect the draw when it is to be moved.

Figure 1 is a longitudinal sectional elevation of a draw-bridge with my improved fastening, and Fig. 2 is a plan view.

Similar letters of reference indicate corresponding parts.

A represents the draw, turning on the center B, in the ordinary way, and by the ordinary or any other approved machinery. C represents the rests with which the ends of the draw have to be fastened. D represents the

spring-bolts which I propose to arrange in the ends of the draw, to be thrown into sockets E in the rests for fastening the draw; E, chains connecting the bolts with drums F, on a shaft, G, located in the middle of the draw, where the machinery for working it is to be convenient for the engineer who attends to the opening and closing of the draw. H is a pinion on said shaft, gearing it with a segmental lever, I, for turning it to draw back the bolts for unfastening the draw. J is a hooked lever for engaging the segmental lever to hold the bolts back, and K is a spring for causing the hooked lever to engage the other when it is pulled back.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination, with draw A and rests C C, of spring-actuated lock-bolts D D, connected by chains with a winding-shaft, G, as shown and described, whereby the bolts automatically lock the draw to the rests as the chain slackens.

CARROLL J. ATKINS.

Witnesses:

WILLIAM PETERS,
SAMUEL BLACK.