

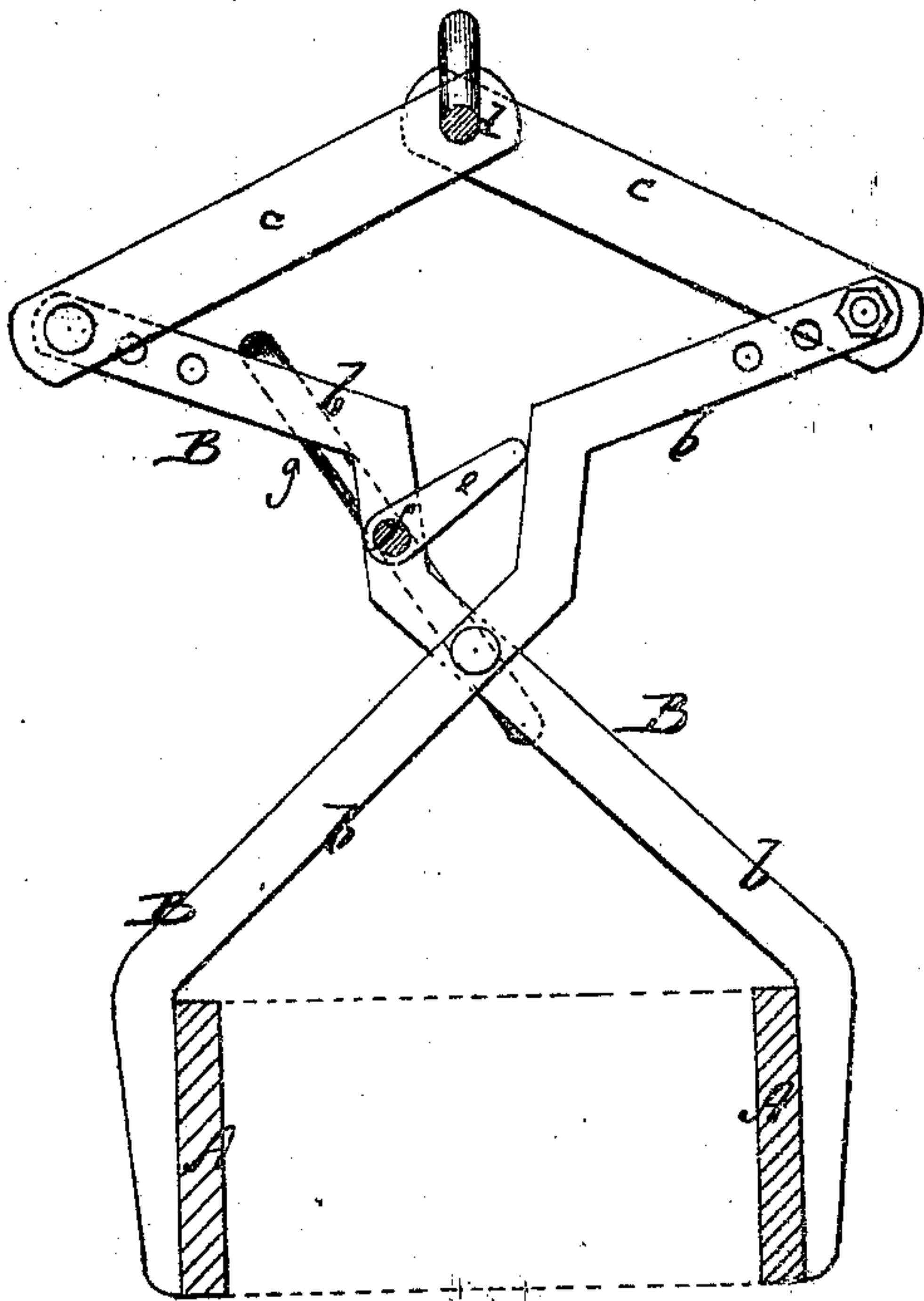
*K. J. Rugg,*

*Brick Lifter.*

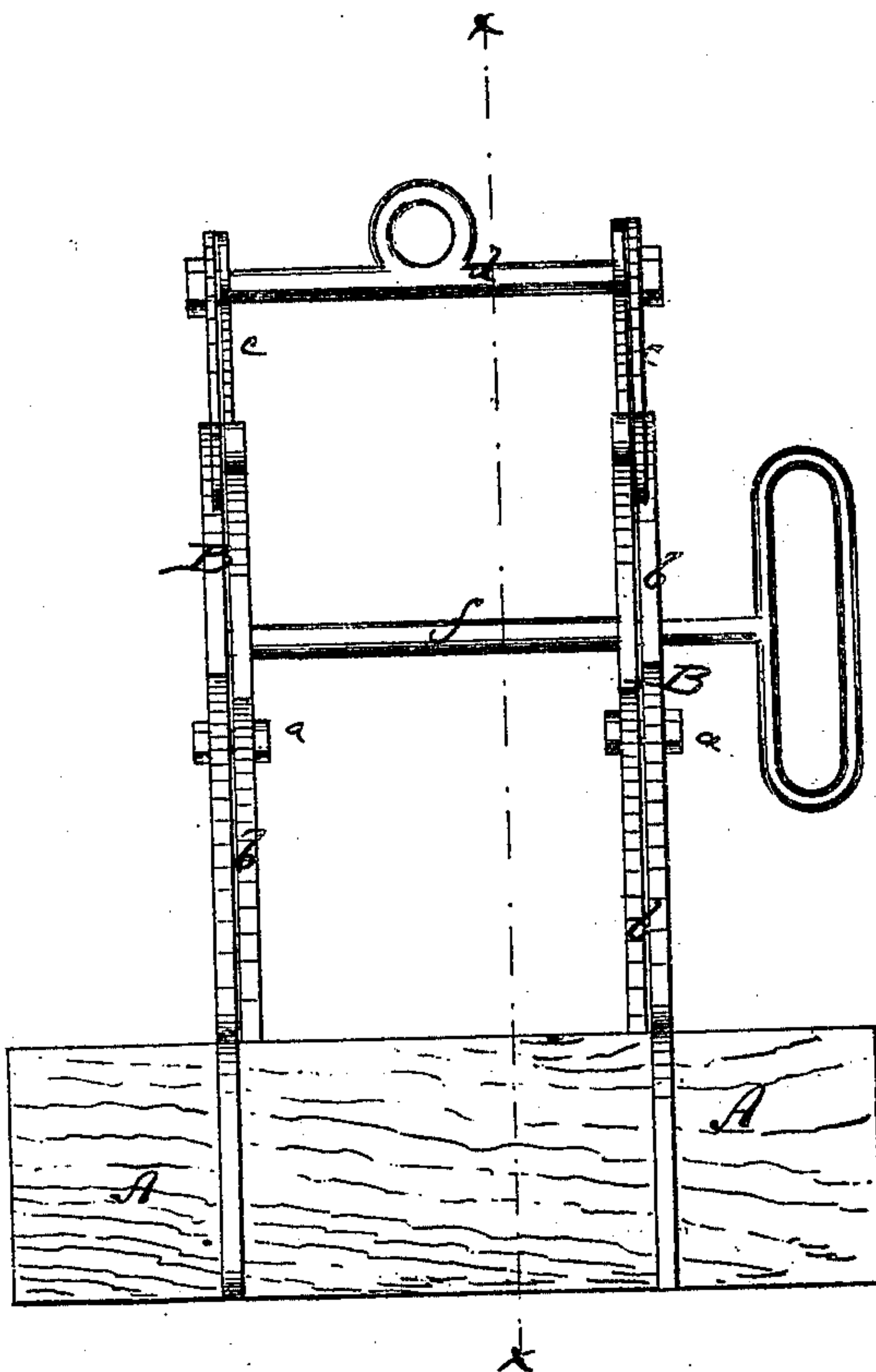
*No. 113799.*

*Patented Apr. 18. 1871.*

*Fig. 1.*



*Fig. 2.*



*Witnesses:*

*E. Wolff.*  
*L. S. Moore*

*Inventor:*

*K. J. Rugg*  
*per* *M. M. L.*  
*Attorneys.*

# UNITED STATES PATENT OFFICE.

K. JULIUS RUGG, OF CINCINNATI, OHIO.

## IMPROVEMENT IN BRICK-LIFTERS.

Specification forming part of Letters Patent No. **113,799**, dated April 18, 1871.

*To all whom it may concern:*

Be it known that I, K. JULIUS RUGG, of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and Improved Brick-Lifter; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 represents a vertical transverse section of my improved brick-lifter, *x x*, Fig. 2, being the section-line. Fig. 2 is a side elevation of the same.

Similar letters of reference indicate corresponding parts.

The object of this invention is to produce an apparatus for removing the brick from brick-machines to trucks.

In certain kinds of brick-machines where the clay is pushed by a piston through a nozzle upon a table or set of rollers to be subsequently cut into blocks by means of wires or cords, the rapid removal of such blocks of clay—*i. e.*, unburnt brick—is a matter of considerable difficulty.

My invention consists in the use of a double-jawed clamp, which will secure and convey a suitable number of bricks without injuring them.

The jaws are composed of two parallel boards, *A A*, of suitable length, so that they can hold at once twelve (more or less) brick. These boards are secured to the ends of an X-shaped jointed frame, *B*, whose arms *b* turn on a pivot, *a*, as shown. The upper ends of the arms *b* are, by rods *c*, connected with a

longitudinal shaft, *d*, which is, by a rope or chain, suspended from a suitable sheave or other device on the roof or ceiling of the room in which the machine is put up.

When the lifter is let down so as to straddle the brick, and then raised by the rope, it will automatically grasp the brick and hold the same, and can be moved to convey them to a suitable truck or other frame. Then it is let down to discharge its load, the jaws being spread apart by cams *e* on a shaft, *f*, that is hung on one side, so that the cams strike the arms *b* on the other side, as shown in Fig. 1.

By the use of this apparatus the brick can be rapidly transferred from the machine to a truck, so as not to interfere with the operation of the machine. The lifter will take up twelve or more brick in the same time in which three were heretofore taken up. The sheaves for holding the rope on the roof should be above the truck, to make the conveying of the brick to said trucks easier. The operator has one hand on the handle *g* of the shaft *f*, while the other controls the rope, and he opens the jaws by a turn of the handle when desired.

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

The combination of the X-shaped jointed frames *B B*, provided with plates *A A*, with the shaft *f* and cams *e*, all constructed and arranged as shown, for the purpose set forth.

K. JULIUS RUGG.

Witnesses:

WM. C. SMITH,  
WM. J. ROBERTS.