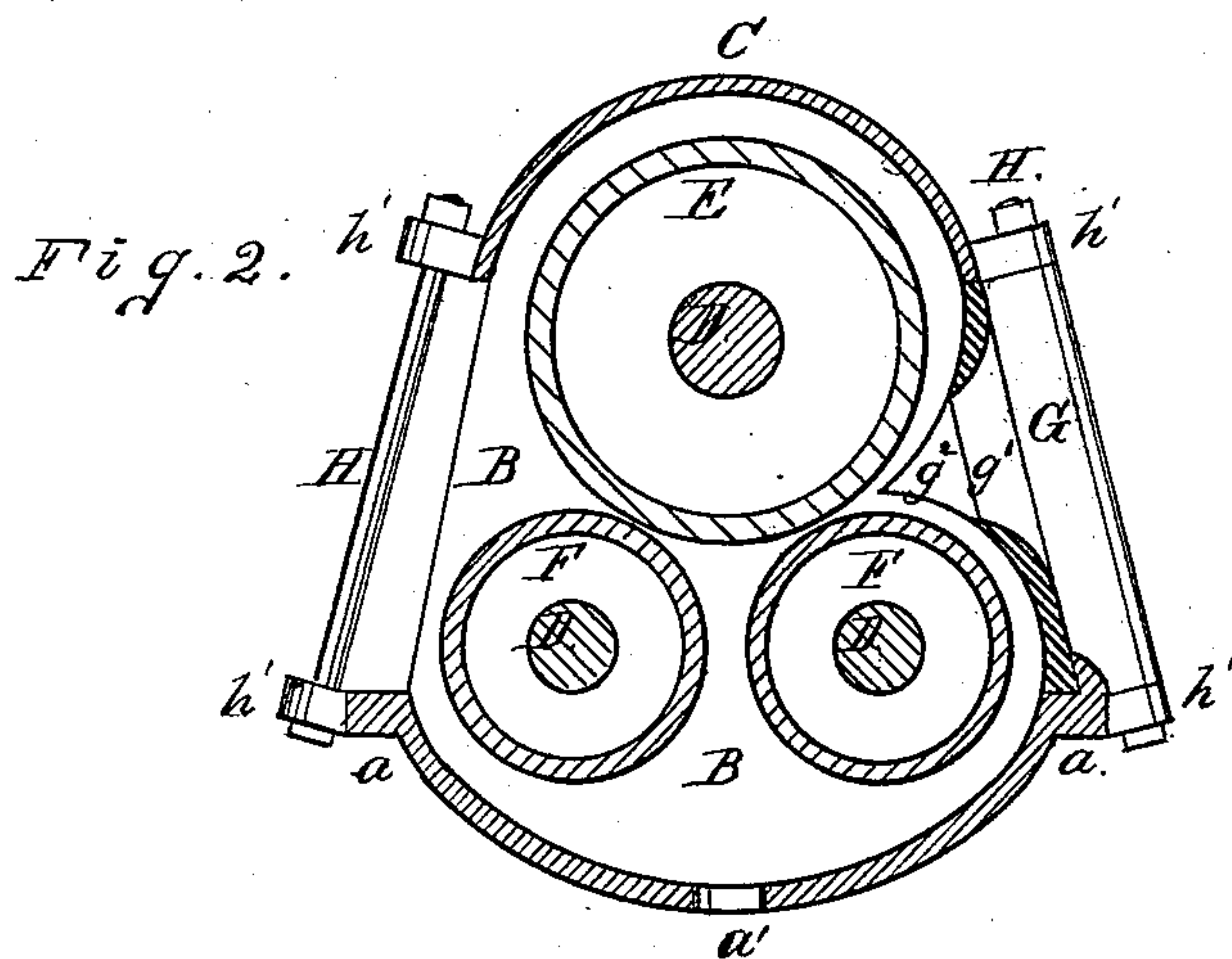
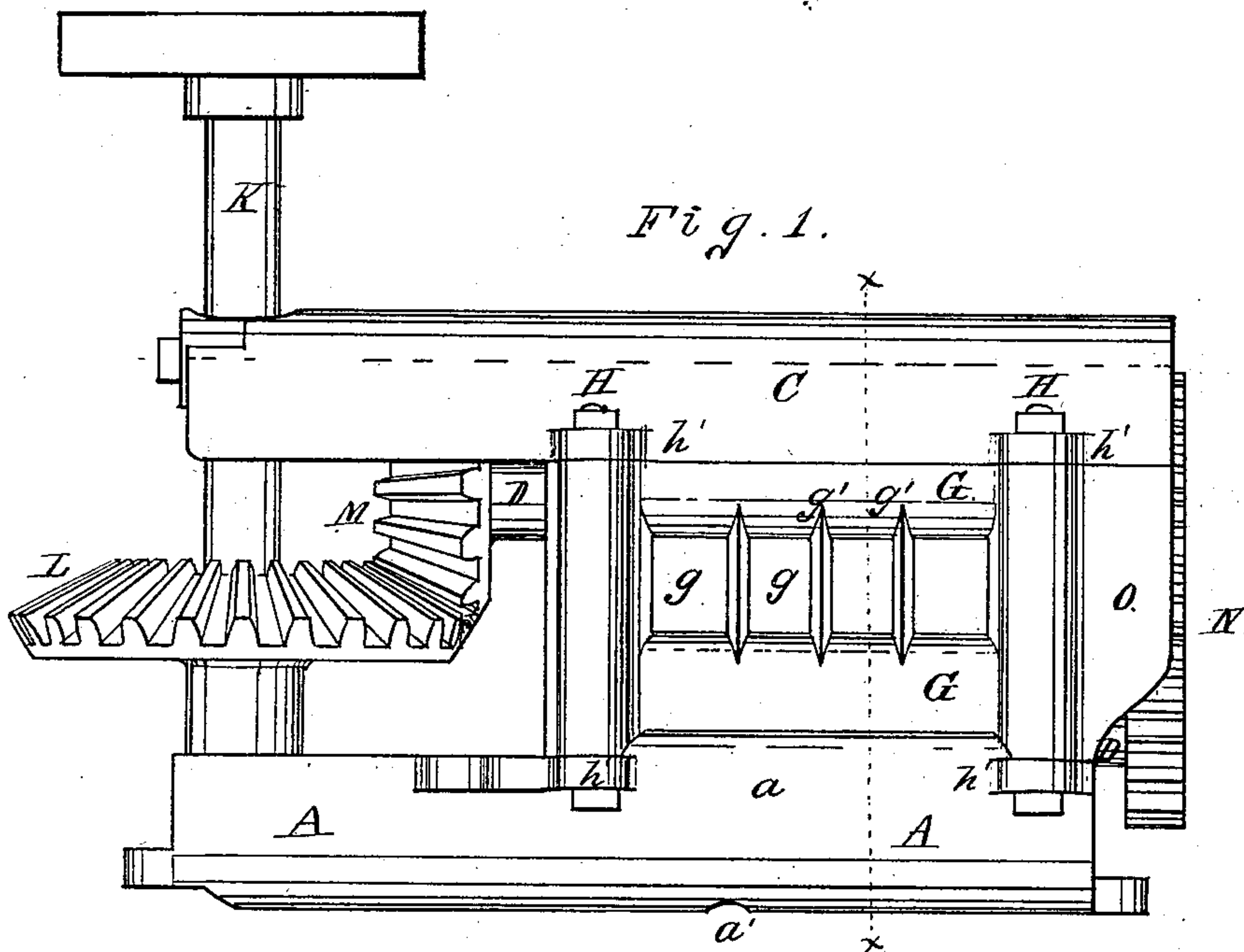


W. S. REEDER.
Cane-Mill.

No. 226,352.

Patented April 6, 1880.



Attest:

Geo. H. Knight
Walter Allen

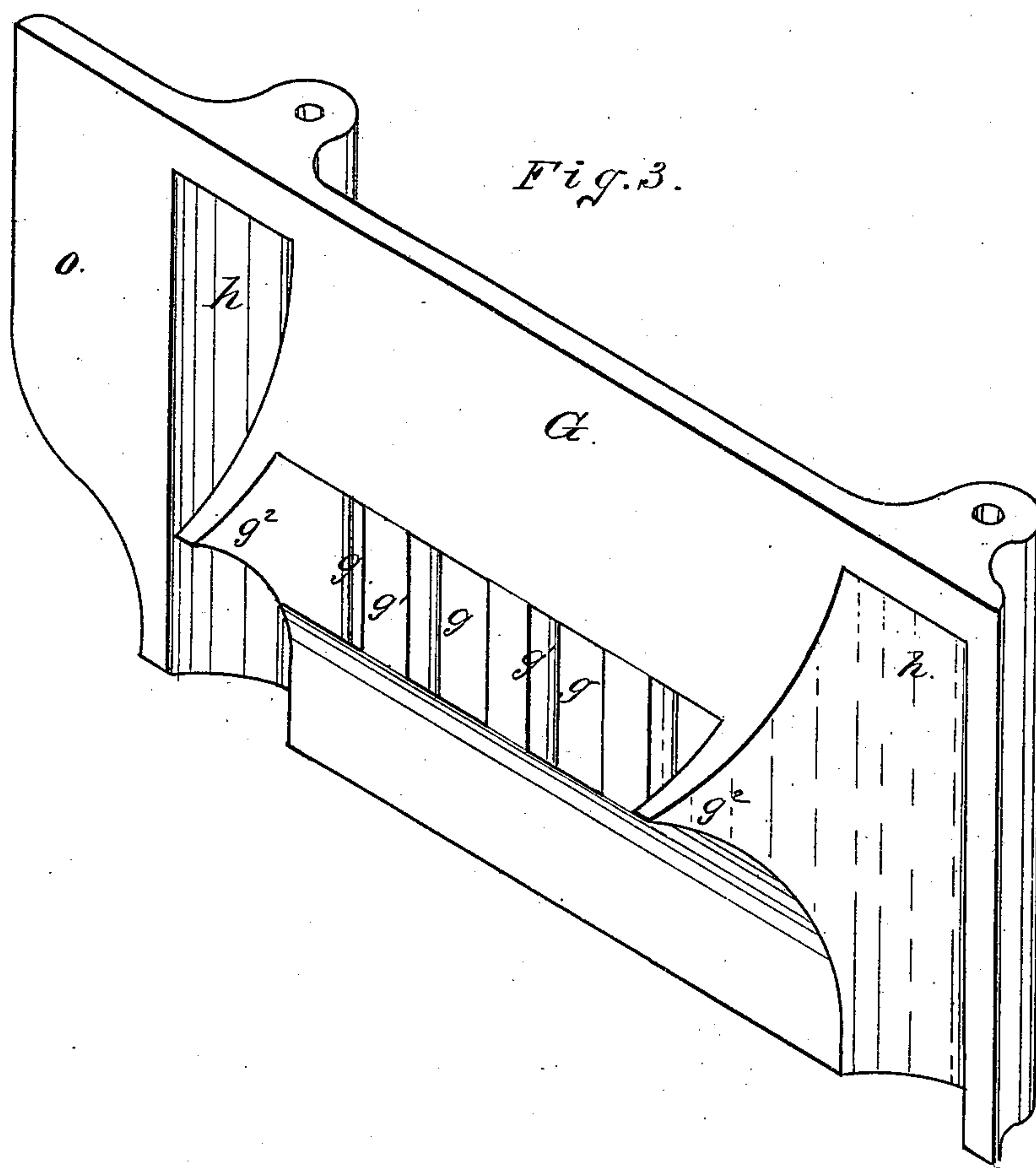
Inventor:

William S. Reeder
By Knight Bros
Atty's.

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Attest:

Geo. H. Wright.

Walter Allen

Inventor:

William S. Reeder

By Wright Bros.

Atlys.

UNITED STATES PATENT OFFICE.

WILLIAM S. REEDER, OF ST. LOUIS, MISSOURI, ASSIGNOR TO KINGSLAND, FERGUSON & CO., OF SAME PLACE.

CANE-MILL.

SPECIFICATION forming part of Letters Patent No. 226,352, dated April 6, 1880.

Application filed October 23, 1879.

To all whom it may concern :

Be it known that I, WILLIAM S. REEDER, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Cane-Mills, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My improvement relates to a device to prevent the cane getting into the cog-gearing of the mill, also to prevent the clothing or members of the operatives from entering between the rolls or gearing.

My improvement consists in a front plate extending from the cap or top plate to the base-plate of the machine, said plate having orifices through which the cane is fed to the rolls, and inwardly-extending wings at the ends of the rolls, to prevent the escape of the canes at those places.

In the drawings, Figure 1 is a front side view of the mill. Fig. 2 is a transverse section at *x x*. Fig. 3 is an enlarged perspective inside view of the front plate.

A is the bottom portion or base of the mill, which is made in the form of a trough, its sides *a* being curved upward, and end plates, B, being tightly fitted into it, forming the ends of the juice-basin. These plates B extend upward to the cap or top plate, C, and act as transverse braces to the mill, as well as housing, giving journal-bearing to the shafts D of the crushing-rolls E and F F. *a'* is the hole for the escape of juice.

G is the front plate, (in which my improvement consists.) This plate G is interposed between the base A and cap C on the

front side of the mill, and constitutes a thorough longitudinal brace to the same. The cap and base are connected together by through-bolts H, which, upon the front of the mill, extend through recesses *h* in the inside of the front plate. All the bolts H pass through lugs *h'* upon the base A and cap C. The front plate, G, has orifices at *g*, through which the canes are fed, the orifices being separated by guide-bars *g'*. The orifices vary in number according to the size of the mill.

Near the ends of the front plate, upon the inner side, are wings *g*², which are formed to enter the space between the front roll, F, and the top roll, E, to prevent the escape of the canes from between the rolls.

The gearing of the mill is as usual, K being the sweep-shaft driving the roll E by bevel-wheels L M. The rolls F F are driven by the roll E through spur-wheels at N.

It will be observed that the plate G has an end wing, O, extending in front of the gear-wheels N, to prevent the entanglement of canes or the clothing of the operative.

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

In a cane-mill, the longitudinal brace and face-plate G, secured between the base A and cap C on the front of the mill, and having orifices *g*, guide-bars *g'*, wings *g*² near each end, and protruding between the top and front rolls, and end wing, O, to protect the gearing, substantially as set forth.

WILLIAM S. REEDER.

In presence of—

SAML. KNIGHT,
GEO. H. KNIGHT.