

J. DEMPSEY.

MACHINE FOR FILLING BREADSTUFFS INTO OR ON AN OVEN.

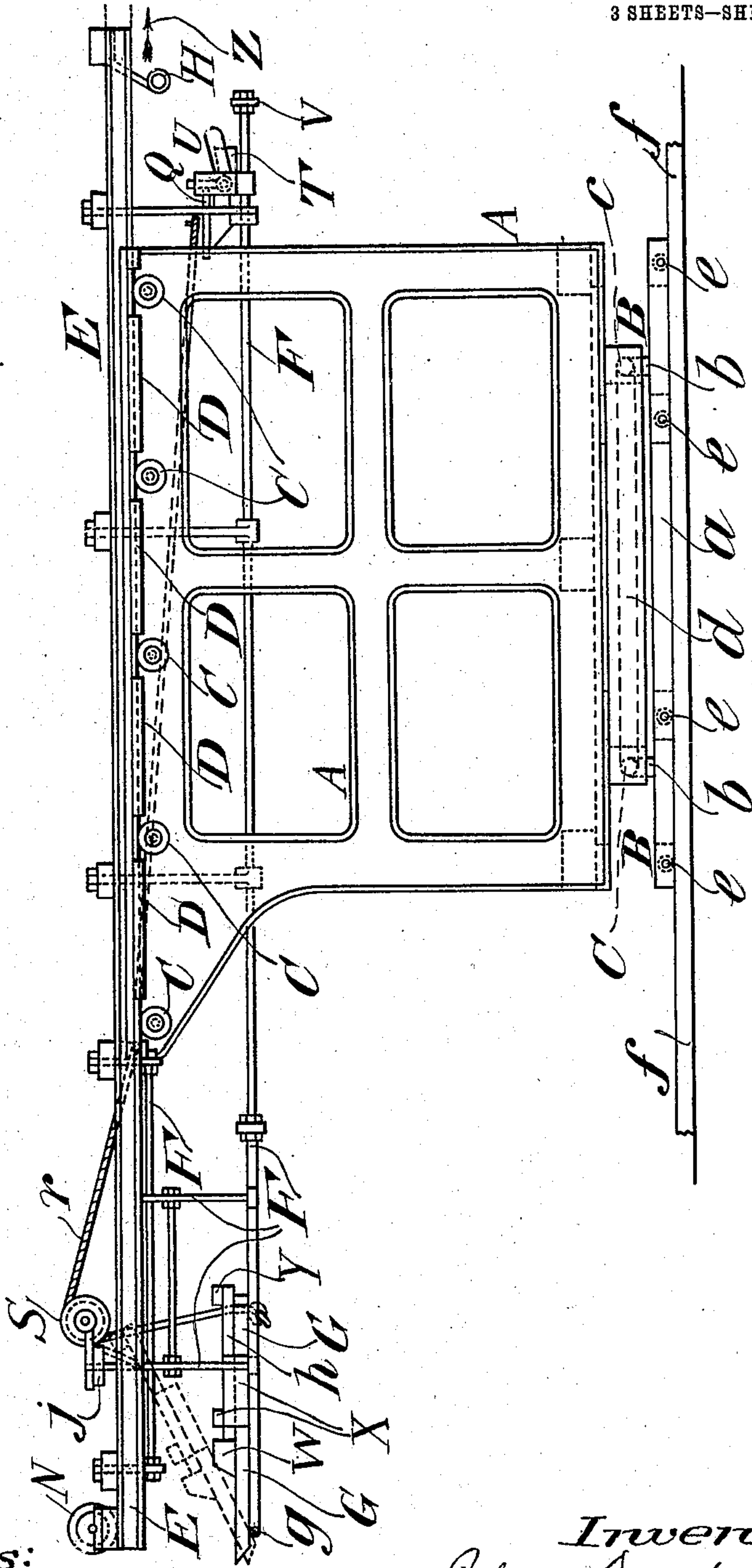
APPLICATION FILED MAR. 6, 1908.

901,077.

Patented Oct. 13, 1908.

3 SHEETS—SHEET 1.

Fig. 1.



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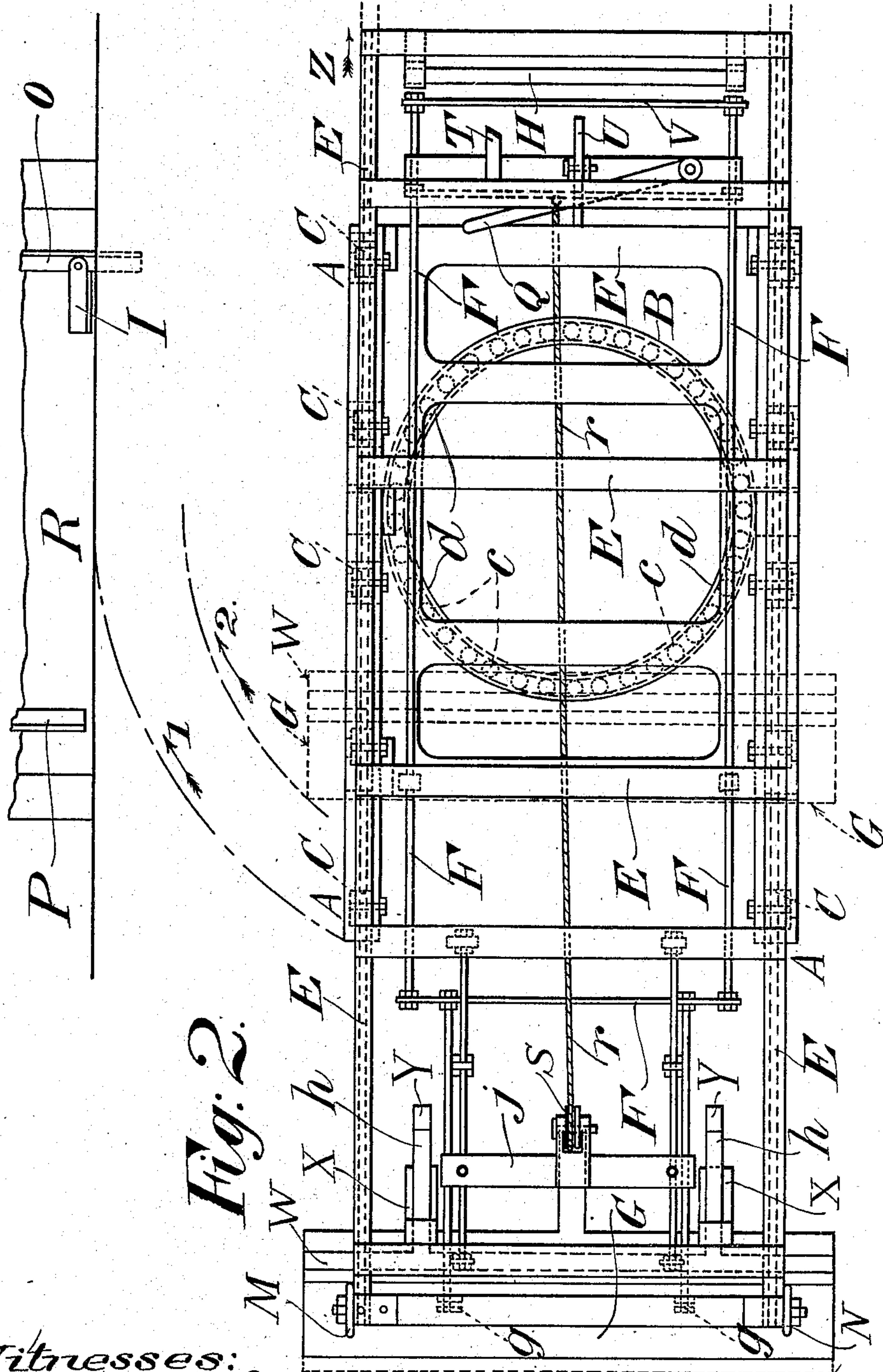


Fig. 2.

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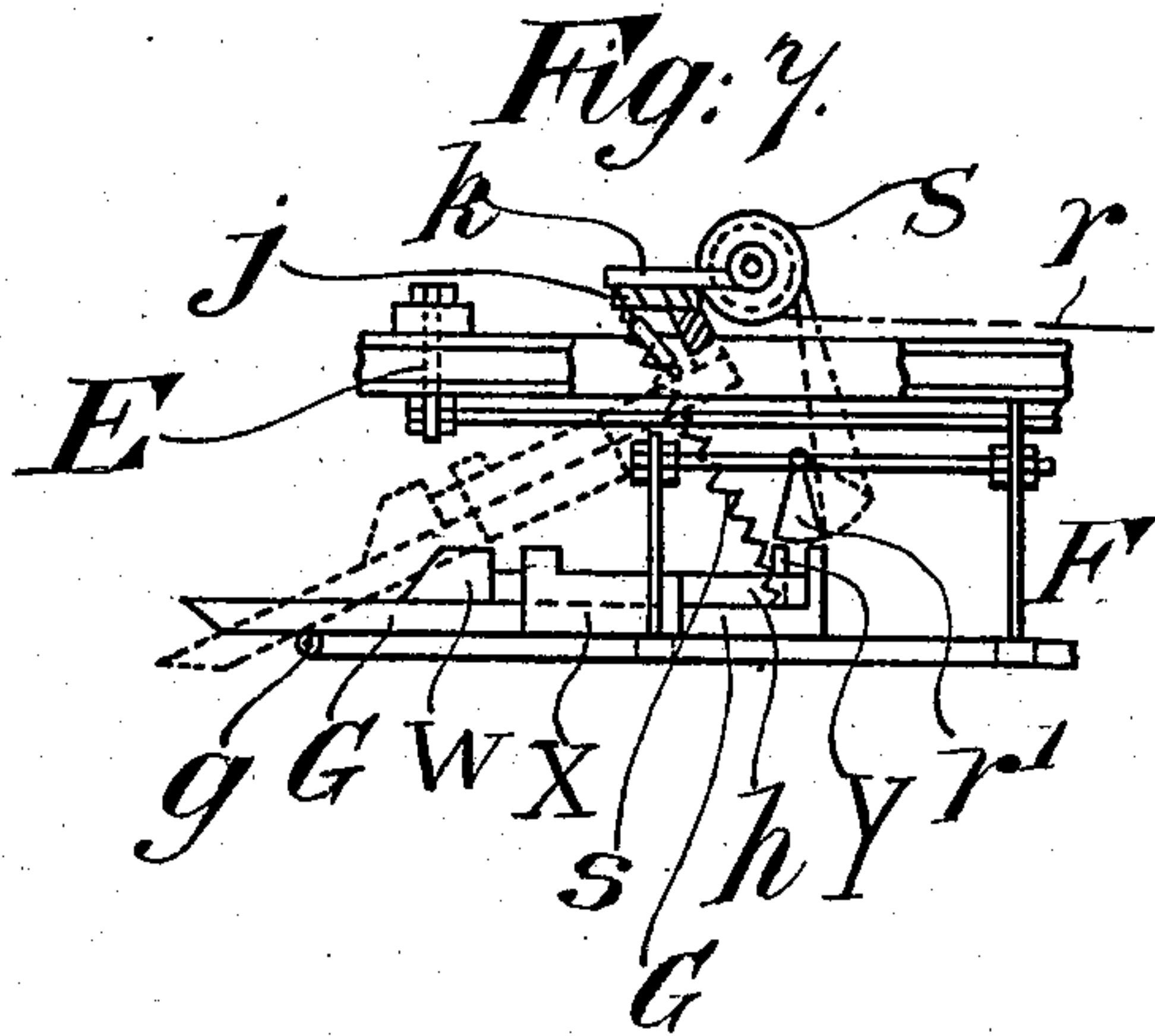
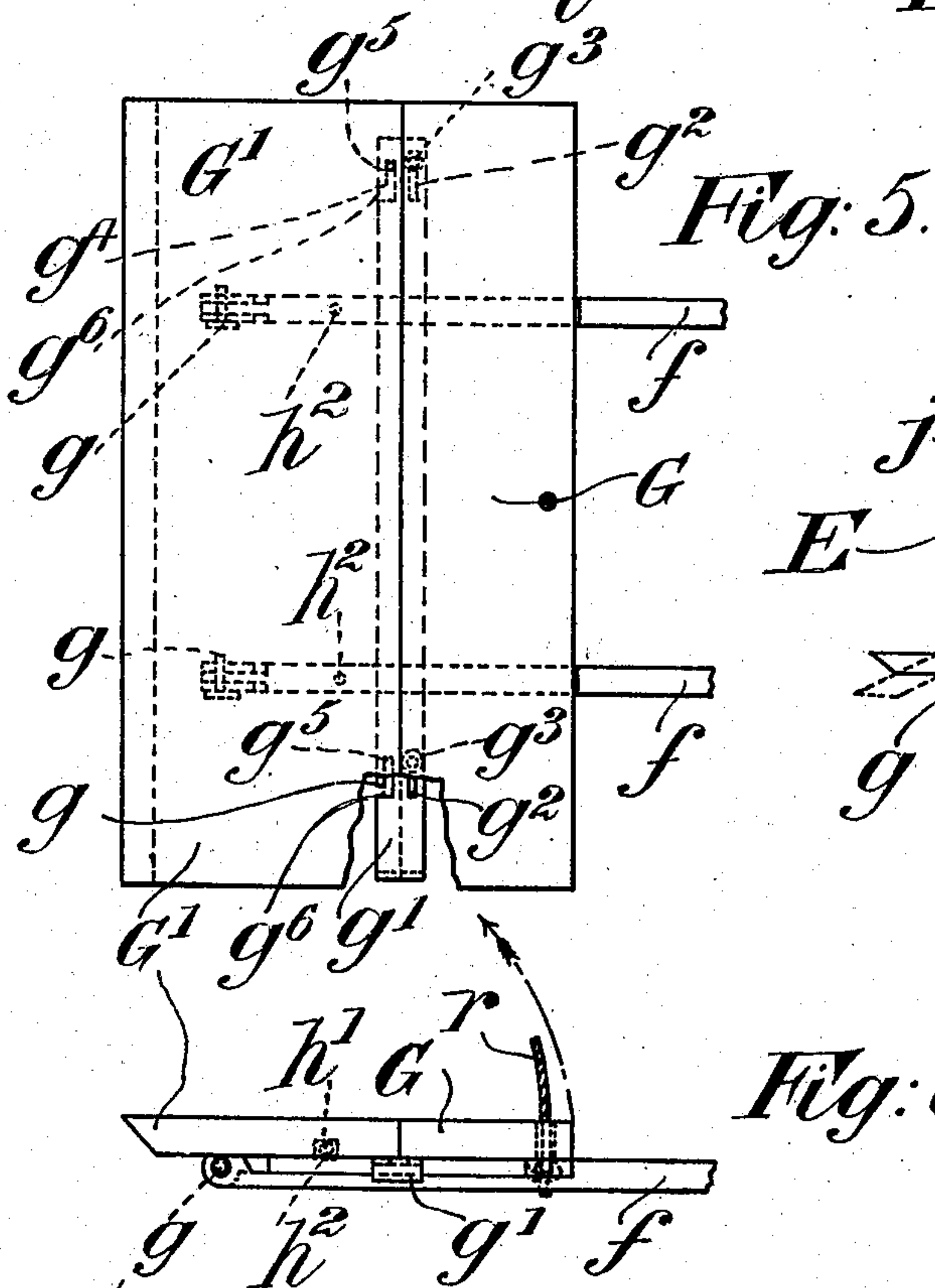
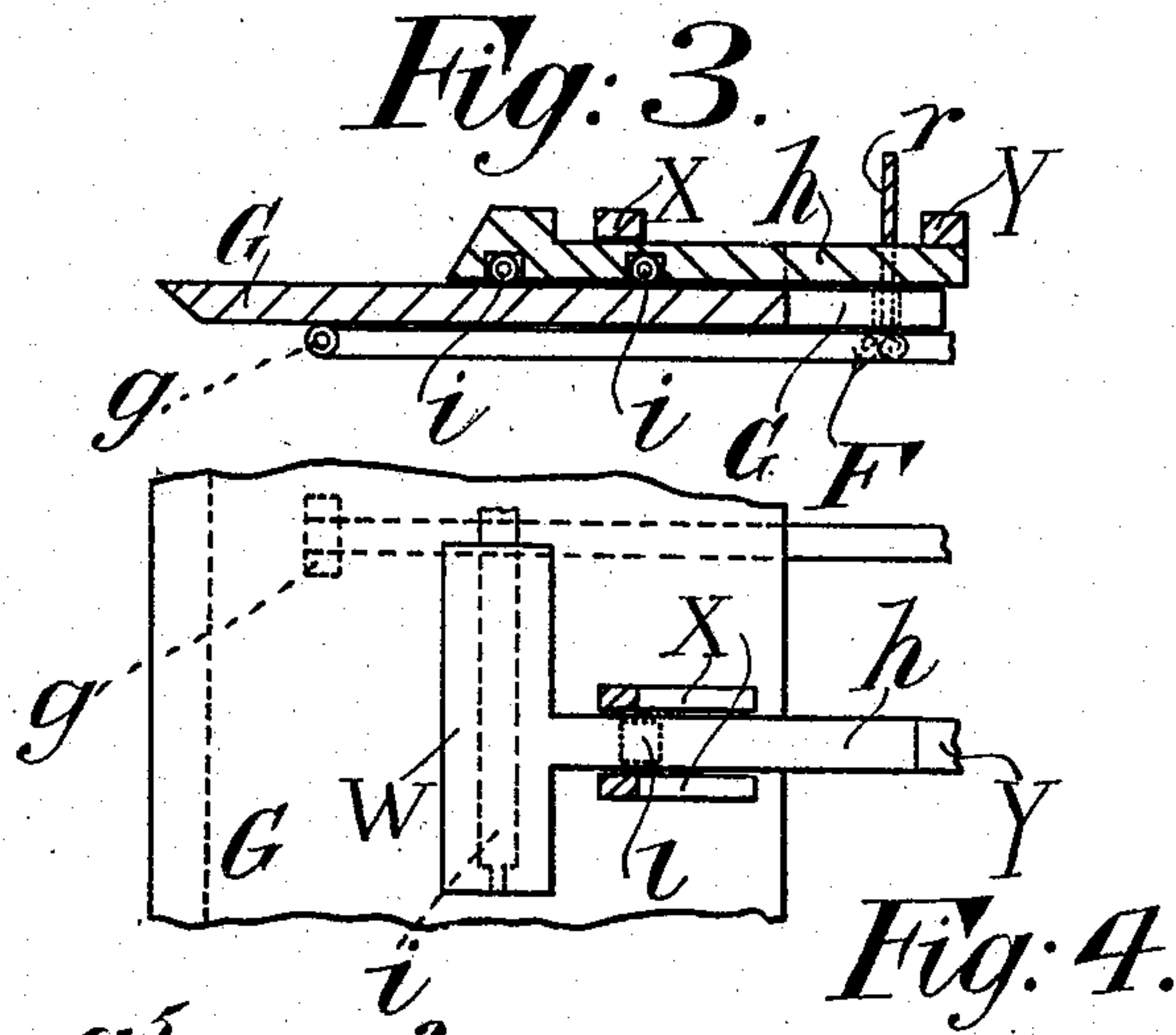
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UNITED STATES PATENT OFFICE.

JOHN DEMPSEY, OF BELFAST, IRELAND.

MACHINE FOR FILLING BREADSTUFFS INTO OR ON AN OVEN.

No. 901,077.

Specification of Letters Patent.

Patented Oct. 13, 1908.

Application filed March 6, 1908. Serial No. 419,512.

To all whom it may concern:

Be it known that I, JOHN DEMPSEY, a subject of the King of Great Britain, residing at 6 St. Paul's Terrace, Cavendish Square, Belfast, Ireland, have invented a certain new and useful Machine for Filling Breadstuffs Into or On an Oven, of which the following is a specification.

This invention relates to the filling of breadstuffs into or on an oven and it has for its object to provide a machine for this purpose. The machine can be easily adjusted to various positions and, further, it is so arranged that when a number of ovens are simultaneously or individually in use it can be readily moved or transferred from one to another as circumstances require.

By the use of this machine, the shape and quality of the bread is improved and that with less labor and under healthier and better conditions than hitherto.

In order that my said invention may be properly understood I have hereunto appended an explanatory sheet of drawings, whereon:—

Figure 1 is a side view of a machine as constructed under my invention. Fig. 2 is a plan view thereof and indicating the door of entrance to an oven. Figs. 3 and 4 are detail views of the board G. Figs 5 and 6 show a slightly modified construction of board G in which the part carrying the breadstuffs is made removable. Fig. 7 shows a slightly modified arrangement of mechanism for actuating or tilting the board G.

In carrying out my invention the machine preferably consists of a framing A the parts of which are suitably connected together. The framing A is supported on a turntable B which may consist of a base *a* to which is secured a ball race *b* having balls or their equivalent *c* therein while, fitted to the lower part of the framing and supported on the balls or their equivalent *c*, is a grooved cover piece *d*. With this arrangement the machine can be readily turned or rotated as required so that the one end thereof can be made to enter the oven R. Moreover, if desired, the turntable B supporting the machine may be provided with wheels *e*, or the like, running on rails *f* so that the machine may be readily removed from oven to oven.

On the upper part of the framing A are fixed rollers or their equivalent C and guides D which carry or support a framework E

constituted by two bars of I or other suitable section connected together by means of tie rods or such like. The framework E is provided, at one end, with rollers or their equivalent M, N, and is free to move longitudinally on the rollers C and guides D, being, preferably, actuated by means of the handle H fitted at the other end.

Depending from the framework E is an arrangement of adjustable rods F, F, to one end of which is hinged, at *g*, a board G for carrying the breadstuff. The board G is provided with a sliding bar W of any suitable material, having arms *h* working in guides X and provided at their inner ends with stop pieces Y (see Figs. 3 and 4) for limiting its movement. In order to allow of a free movement of the sliding bar W rollers or their equivalent *i* may be inserted therein and so arranged that they bear on the board G.

Fitted to the arrangement of rods F, F, is a cross bar or the like *j* to which is secured a grooved pulley or the like S over which runs a flexible wire, cord, or its equivalent *r*, one end of which is connected to the movable lever or handle Q which works in conjunction with the catch T and notched lever U. The notched lever U serves to lock the arrangement of adjustable rods F, F, to the movable framework E said rods F, F, being provided with a handle V.

The interior of the oven R is provided with rails or the like O, P, one of which may have a hinged bracket or stopper I so arranged that when the oven door is closed it may be turned inwards as shown in full lines or removed altogether, but when the door is open to allow of the oven being charged it can be turned outwards to the position shown in dotted lines at Fig. 2.

In operation, the framework E and adjustable rods F, F, which are locked together by means of the notched lever U are pulled backwards in the direction of the arrows Z (Figs. 1 and 2) as partly indicated in dotted lines at Fig. 2. The breadstuff is then placed on the board G and by means of the handle H the whole arrangement of framing A, framework E and rods F, F, is turned round on the turntable B in the direction of the arrows 1, 2, Fig. 2, until the bearing of the roller M comes in contact with the bracket or stopper I. When this position is reached, the framework E and ad-

justable rods F, F, being supported on the rails O, P, by means of the rollers M, N, are pushed forward until the board G has entered the required distance into the oven R the distance being regulated by any suitable means.

When the desired position is reached the lever or handle Q is pulled back, and with it the cord r , and held in that position by the catch T thereby tilting the board G into the position shown in dotted lines at Fig. 1. A stopper k (as at Fig. 7) may be secured to the cross bar j for the purpose of limiting the amount of tilt given to the board G. When the lever or handle Q is pulled back it releases the notched lever U which locked the framework E and the adjustable rods F, F, together and as the latter are now free to slide in the framework E they can be pulled back by means of the handle V. Owing to the pulling back of the adjustable rods F, F, and with them the tilted board G the breadstuff is deposited on the sole of the oven being assisted by the downward movement of the sliding bar w . The framework E is then drawn out of the oven R by means of the handle H and turned again into its original position as in Fig. 2, while at the same time, the lever or handle Q and cord r are also actuated so as to allow the board G to again resume the horizontal position when the machine is once more ready for reloading.

Of course, if desired, the framework E and the adjustable rods F, F, may be simultaneously withdrawn from the oven R by means of the handle H and thereafter the lever or handle Q and cord r may be actuated to bring the board G to the horizontal position for reloading with breadstuffs.

In some cases, it may be found desirable, as illustrated in Figs. 5 and 6, to modify the construction of the board G so that the part G^1 thereof which carries the breadstuff may be readily removed from the machine when emptied and replaced by another similar board previously loaded thereby economizing time and increasing the efficiency of the machine. When an arrangement such as this is adopted the board G may be provided at its under side with a movable locking strip g^1 which is slidably secured to the fixed part of the board G by means of slots g^2 and pins g^3 . The removable part G^1 of the board is, in a similar manner, removably secured to the strip g^1 by means of pins g^5 which can be inserted in the keyhole slots g^4 . When the locking strip g^1 is pushed upwards slightly so that the part g^6 of the slots g^4 is opposite to the pins g^5 the removable part G^1 of the board can be readily detached. Recesses h^1 may be formed in the underside of the removable part G^1 while pins h^2 on the adjustable rods F, F, may enter into these recesses and thereby assist in securing the board in place. By simply sliding the lock-

ing strip g^1 backwards or forwards the removable part G^1 of the board G can be locked in place or released as required. It is to be understood that while I have described above one method of securing the removable part G^1 of the board G, I do not confine myself to this method as any other suitable method of securing may be adopted.

If desired, as shown at Fig. 7 the board G in place of being tilted by means of the cord r and lever or handle Q, may be actuated by a spring or the like s which is so arranged that, when the cord r is pulled, the tumbler r^1 is pulled out of contact with the board G which latter is then free to move upwards under the action of the spring s until stopped by the stopper k as indicated in dotted lines. The sliding bar W slides down under the action of gravity as before, and assists in depositing the breadstuffs on the sole of the oven. By simply pressing the board G downwards against the action of the spring s and slackening the cord r so that the tumbler r^1 once more bears on the end of the board the latter is again retained in the horizontal position.

If desired or where the construction of the oven R does not permit of using the rails O and P attached to the oven roof as indicated in Fig. 2 the rollers M, N, may be so arranged that they will rest on the sole of the oven and thereby support the framework E when in the oven.

Having now fully described my invention what I claim and desire to secure by Letters Patent is:—

1. A machine for filling breadstuffs into or on an oven having, in combination, a longitudinally movable framework, means for carrying the breadstuffs on the longitudinally moving framework and a rotatable framework for supporting the longitudinally movable framework.

2. A machine for filling breadstuffs into or on an oven having, in combination, a longitudinally movable framework, means for carrying the breadstuffs on the longitudinally movable framework, a rotatable framework for supporting the longitudinally movable framework and a turntable for the rotatable framework.

3. A machine for filling breadstuffs into or on an oven having, in combination, a longitudinally movable framework, an adjustable board for carrying the breadstuffs, means for adjusting the board, means for actuating the longitudinally movable framework, a rotatable framework and a turntable therefor.

4. A machine for filling breadstuffs into or on an oven comprising, in combination, a longitudinally movable framework, an adjustable board for carrying the breadstuffs, said board being hinged to said framework, rods connected to the adjustable board,

means for raising and lowering the board, a rotatable framework, and a turntable therefor provided with ball bearings.

5. A machine for filling breadstuffs into or on an oven comprising, in combination, a longitudinally movable framework, an adjustable board thereon for carrying the breadstuffs, adjustable rods connected to the board, means for locking the adjustable rods to the movable framework, a guide pulley on the adjustable rods, a flexible wire or cord for raising and lowering the adjustable board and a rotatable framework provided with rollers and guides for supporting the longitudinally movable framework.

6. A machine for filling breadstuffs into or on an oven comprising, in combination, a longitudinally movable framework, an adjustable board for carrying the breadstuffs, adjustable rods connected to the adjustable board, means for locking the adjustable rods to the movable framework, a handle at one end of the movable framework, rollers at the other end, a guide pulley on the adjustable rods, a flexible means for raising and lowering the adjustable board, means for actuating the said flexible means, working in conjunction with the means for locking the adjustable rods, and a rotatable framework provided with rollers and guides for supporting the longitudinally movable framework.

7. A machine for filling breadstuffs into or on an oven comprising, in combination, a longitudinally movable framework, an adjustable board hinged thereto, for carrying the breadstuffs, adjustable rods connected to the adjustable board, means for locking the adjustable rods to the movable framework, a handle at one end of the movable framework, rollers at the other end thereof, a guide pulley on the adjustable rods, a flexible cord for raising and lowering the adjustable board, means for actuating the flexible cord working in conjunction with the means for locking the adjustable rods, a rotatable

framework provided with rollers and guides for supporting the longitudinally moving framework and means for limiting the rotary movement of said rotatable framework. 50

8. A machine for filling breadstuffs into or on an oven comprising, in combination, a longitudinally movable framework, an adjustable board for carrying the breadstuffs, said board being hinged to said framework, a sliding bar on the board, arms on the bar working in guides on the board, stop pieces on the arms and means for adjusting the board. 55

9. A machine for filling breadstuffs into or on an oven comprising, in combination, a longitudinally movable framework, an adjustable board for carrying the breadstuffs, said board being hinged to said framework, a sliding bar on the board, rollers in the bar bearing on the board, arms on the bar working in guides on the board, stop pieces on the arms, and means for adjusting the board. 60 65

10. A machine for filling breadstuffs into or on an oven comprising, in combination, a longitudinally movable framework, an adjustable board for carrying the breadstuffs, said board being hinged to said framework and provided with a removable part, means for locking and releasing the removable part and means for adjusting the board. 70 75

11. A machine for filling breadstuffs into or on an oven comprising, in combination, a longitudinally movable framework, an adjustable board for carrying the breadstuffs and hinged to the framework, said board being provided with a removable part, locking means for the removable part slidably secured to the adjustable board and means for adjusting the board. 80 85

In testimony whereof I affix my signature in presence of two witnesses.

JOHN DEMPSEY.

Witnesses:

WILLIAM FLEMING,
JOSEPH HARRIS.