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F. W. C. SPIESS.

Candying-Machines.

No. 135,672.

Patented Feb. 11, 1873.

Fig. 1.

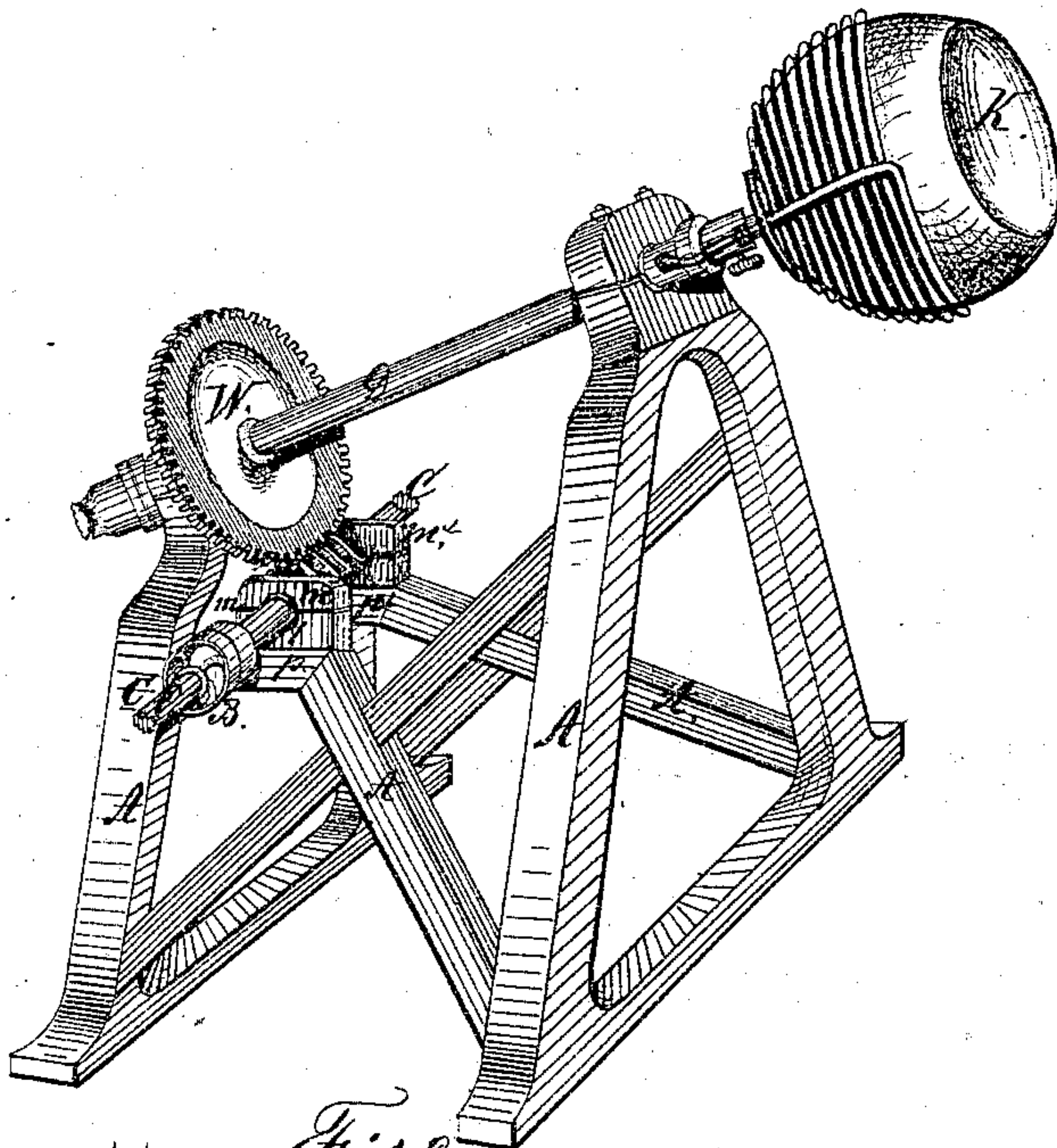
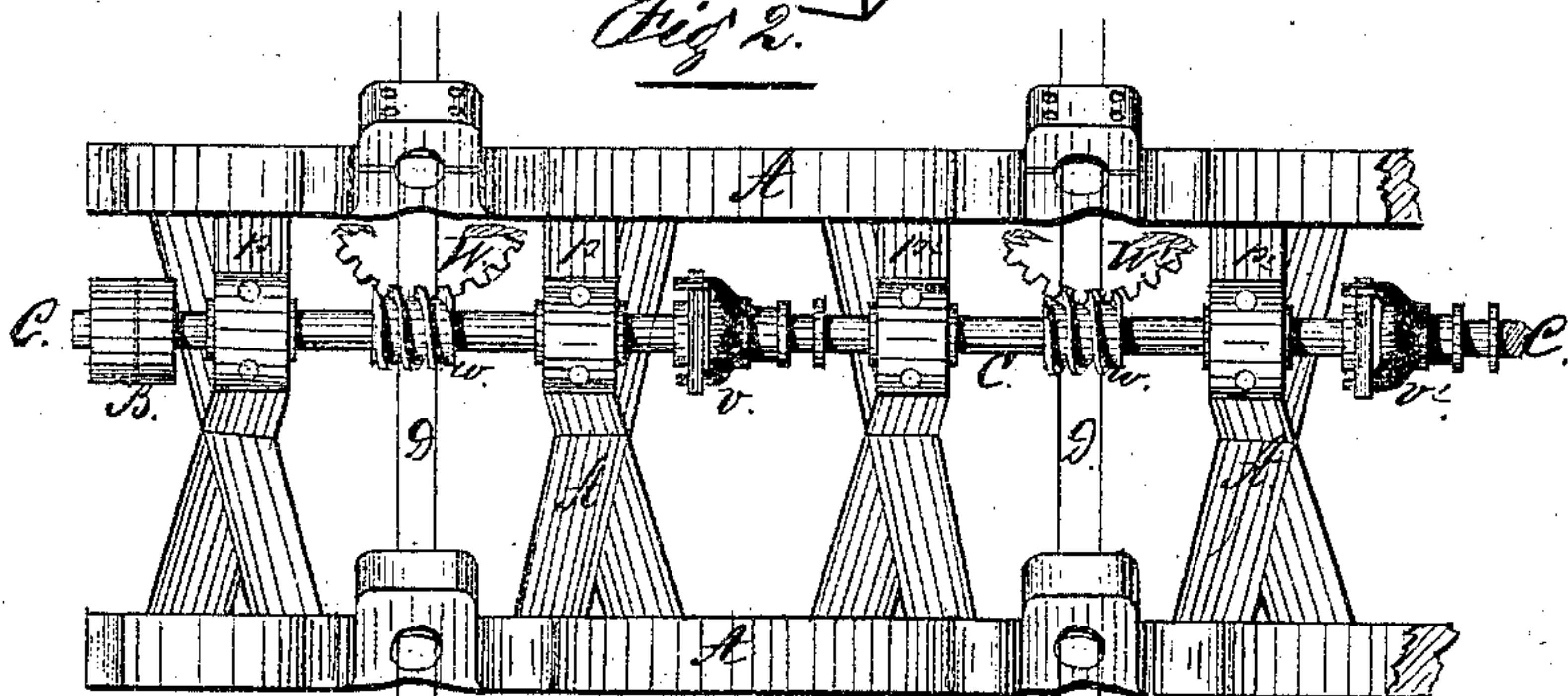


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

FREDERICK W. CHS. SPIESS, OF NEW YORK, N. Y.

IMPROVEMENT IN CANDYING-MACHINES.

Specification forming part of Letters Patent No. 135,672, dated February 11, 1873.

To all whom it may concern:

Be it known that I, FREDERICK W. CHS. SPIESS, of the city, county, and State of New York, have invented a certain Improvement in Dragée or Candying Machines, of which the following is a specification:

The main part of my invention relates to a dragée or candying machine in which the inclined shaft holding the pan or kettle, instead of being driven by beveled wheels, is brought in combination with a driving-shaft, which is provided with a worm, with pulleys and clutches, in such a manner that said worm meshes into the spurs of a cylindrical wheel that is fastened on the said inclined shaft inside of the frame of the machine; the object of my invention being, first, to reduce the space which is generally occupied by the machines, by placing two or more of said machines in one frame; second, that one or more of the machines can be set in operation by one small belt; third, that one or more of the machines can be disengaged or stopped at any time, just as may be required by the operator; fourth, that the greatest durability and most quiet and uniform going or turn of the machine are obtained.

Figure 1 is a perspective view of a machine embodying my invention. Fig. 2 is a plan of the same, showing also how two or more of the machines are to be placed in one frame and to be driven by one pulley.

A is the frame of the machine or machines, which frame should be substantially constructed to resist the vibrations of the operating parts. B is the driving-pulley on the shaft C, which receives motion by a belt from a pulley hung on the main driving-shaft. D is the inclined shaft carrying the pan or kettle K, which latter is for the reception of the goods to be candied.

The construction of this shaft and the combination of it with the pan or kettle K, as well as the arrangement and mode of heating the latter by indirect steam, are in general the same as already known and now in use; wherefore I do not find it necessary to give here a detailed description of the same. Suffice it to say that a glance on Fig. 1 will enable any one skilled in the art to get a full understanding of it.

In the old construction of the machine the shaft D is propelled by two beveled wheels,

of which the one is fastened on said shaft and the other outside of the frame. This arrangement, practical as it may be for any other kind of machinery, has not proved to be beneficial for dragée or candying machines when steam heating, as above referred to, is applied. The loosening of the packing in the stuffing-box, which is combined with shaft D, and consequently the getting out of order of the steam-pipe connections, the escape of steam, &c., caused by the more or less shaking revolutions of said wheels when placed as mentioned above, have been experienced as grave objections to be made against the same.

In my improved construction of the machine I have most effectually avoided all such objections by the application of a driving-shaft, C, which I have placed, as will be seen in the drawing, inside of the frame A, below the lower part of shaft D. This shaft C is substantially supported by the bearings M M', which are placed on the cross-pieces p p' of the frame A. It is provided with a worm, w, which meshes into the spurs of the cylindrical wheel W on the shaft D, producing thus a most quiet and uniform motion of the machine.

In order to save space as well as to facilitate the work, the frame A is extended, as also the shaft C, as shown in Fig. 2, so that two or more machines may be placed nearer together and driven by one pulley, in the same manner as before. In case the one or other of the machines is momentarily to be stopped or not to be used, the clutches v v', which are made movable on C, and constructed as usual, can be used for disengaging the same.

Having now fully described my invention, I wish it distinctly understood that I make no claim to the shaft C provided with pulleys, worms, and clutches, for I am aware that these are not new; but

I claim as my invention—

The combination of the frame A with two or more dragée or candying machines, together with the shaft C, which latter is provided with the pulley B, worms w w', and clutches v v', substantially as and for the purpose hereinbefore set forth.

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Witnesses:

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