

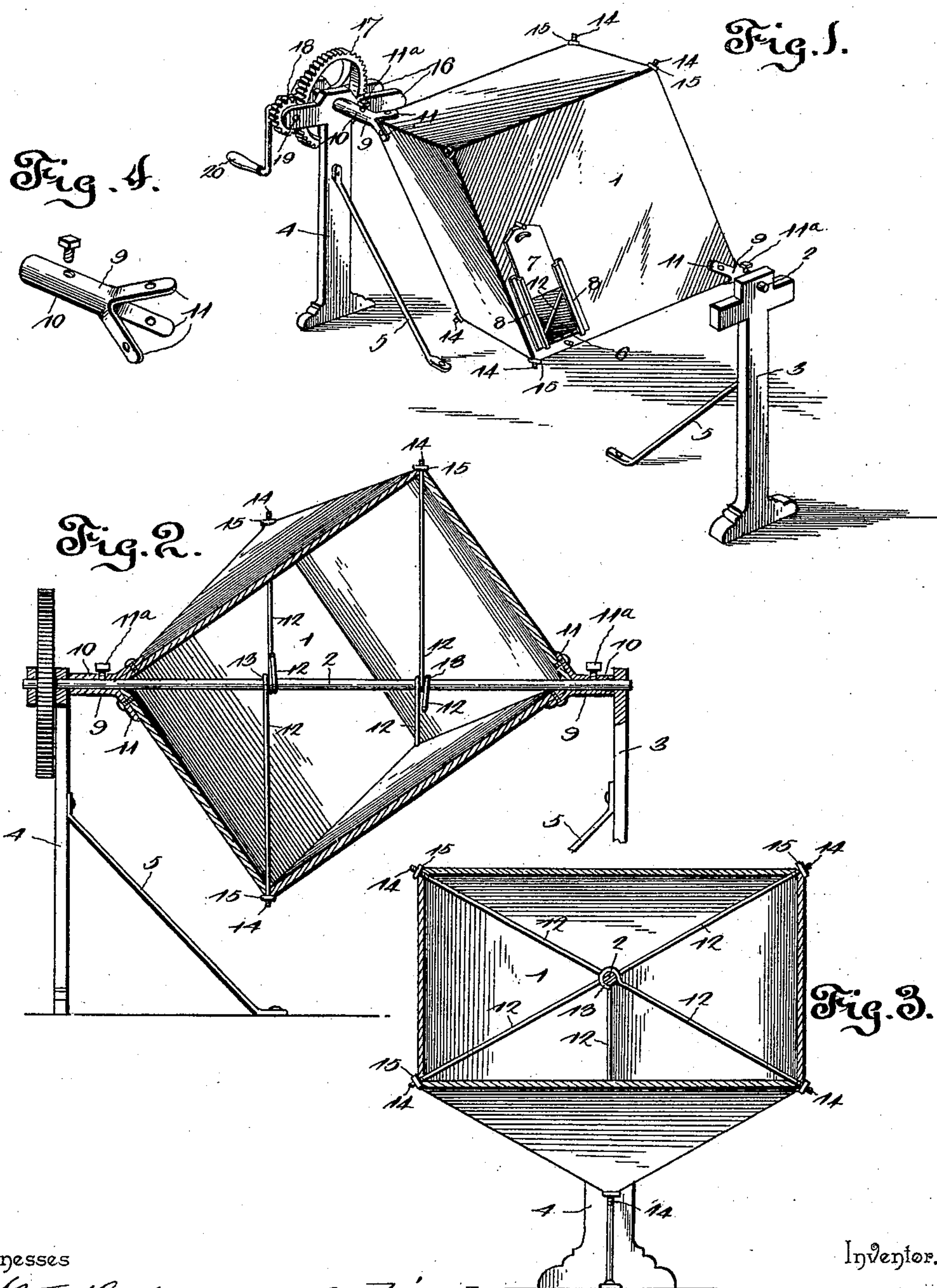
No. 621,521.

Patented Mar. 21, 1899.

A. H. CANNING.
TEA MIXER.

(Application filed Sept. 17, 1898.)

(No Model.)



Witnesses

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By His Attorneys, A

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UNITED STATES PATENT OFFICE.

ALEXANDER HASTINGS CANNING, OF TORONTO, CANADA.

TEA-MIXER.

SPECIFICATION forming part of Letters Patent No. 621,521, dated March 21, 1899.

Application filed September 17, 1898. Serial No. 691,194. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER HASTINGS CANNING, a subject of the Queen of Great Britain, residing at Toronto, in the Province of Ontario and Dominion of Canada, have invented a new and useful Tea-Mixer, of which the following is a specification.

The invention relates to improvements in tea-mixers.

The object of the present invention is to improve the construction of tea-mixers and to provide a simple, inexpensive, and efficient device adapted to be conveniently operated and capable of rapidly and thoroughly mixing teas, so that black and green tea will be uniformly distributed.

The invention consists in the construction and novel combination and arrangement of parts, as hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a tea-mixer constructed in accordance with this invention. Fig. 2 is a longitudinal sectional view. Fig. 3 is a transverse sectional view. Fig. 4 is a detail perspective view of one of the clamps.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 designates a rotary box or receptacle, rectangular in cross-section, mounted on a horizontal shaft 2, and extending diagonally through the same from one corner to the opposite corner of the other side, and the ends of the shaft are supported by standards 3 and 4, provided at their tops with suitable bearings and supported by inclined braces 5. The box or body is provided at one side with an opening 6, which is covered when the mixer is in operation by a slide 7, arranged in suitable ways 8 and adapted to permit tea to be readily placed in and removed from the box or receptacle.

The shaft is fixed to the rotary box or body by means of a pair of clamps 9, consisting of sleeves 10 and sides or wings 11, diverging from the inner end of the sleeve and fitting the adjacent faces of the box or body. The sleeve 10 is provided with a threaded perforation, in which is arranged a clamping-screw

11^a, adapted to engage the shaft, whereby the clamp is rigidly secured to the same. The flanges or wings 11 may be provided with perforations for the reception of screws or other suitable fastening devices for securing the clamps to the body or receptacle; but these fastening devices may be omitted without impairing the efficiency of the clamps. The outer ends of the sleeves fit against the inner faces of the standards, and the terminals of the shaft project beyond the sleeves and extend into the bearings of the standards.

The box or receptacle for the tea is braced by rods 12, extending from the shaft at points equidistant of the ends thereof to six of the corners of the box. The inner ends of the bracing-rods 12 are provided with hooks 13, which engage the shaft, and the outer ends of the rods 12 are threaded at 14 and extend through the box or body, being engaged by exteriorly-arranged nuts 15. By adjusting the nuts on the rods the box or receptacle is forced into the tapering clamps 10, and the said rods, besides operating to support the receptacle or box, operate as agitators and assist in mixing the tea.

The standard 4 is provided at its top with a horizontal arm composed of two sides 16, between which are arranged a gear-wheel 17 and a pinion 18. The gear-wheel is keyed or otherwise secured to the adjacent end of the horizontal shaft, and the pinion, which is located at the outer ends of the sides of the arm 16, is mounted on a shaft 19, which is provided with a crank-handle 20, whereby the mixer is operated. Gearing of any size may be employed for producing the desired rotation of the box or body, and as the latter is rotated its contents will be thrown continually from one end of the same to the other, thereby producing a thorough mixing of the tea and a uniform distribution of the same in a minimum amount of time.

The invention has the following advantages: The tea-mixer is simple and comparatively inexpensive in construction, it is easily operated, and the bracing-rods, which support the box or receptacle, also serve as agitators to assist in mixing tea. The clamps, which engage the opposite corners of the box or receptacle and which are provided with

clamping-screws for engaging the shaft, form efficient means for rigidly and detachably mounting the former on the latter.

Changes in the form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

What is claimed is—

10 1. A device of the class described comprising a rotary box or receptacle, a horizontal shaft extending diagonally through the same and connected with opposite corners thereof, and rods extending from the other corners of
15 the box or receptacle to the shaft, forming braces and serving as agitators, substantially as described.

2. A device of the class described comprising a rotary box or receptacle, a horizontal
20 shaft extending diagonally through the same, clamps mounted on the shaft and engaging the adjacent angles of the box or receptacle, and the bracing-rods located at opposite sides of the center of the shaft, provided at their
25 inner ends with hooks for engaging the latter and having their outer ends adjustably se-

cured to the box or receptacle, and means for supporting and for rotating the shaft, substantially as described.

3. A device of the class described comprising a rotary box or receptacle, a diagonally-arranged shaft extending through the box or receptacle, and the combined braces and agitators consisting of rods extending from corners of the box or receptacle to the shaft, and
35 having hooks engaging the latter, substantially as described.

4. A device of the class described comprising a shaft, a revoluble cubical box mounted on the shaft, journal-supports at diagonally
40 opposite corners of the box, and interior rods extending from the remaining corners of the box to the shaft and loosely connected thereto, substantially as described.

In testimony that I claim the foregoing as
45 my own I have hereto affixed my signature in the presence of two witnesses.

ALEXANDER HASTINGS CANNING.

Witnesses:

W. A. LAMPORT,
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