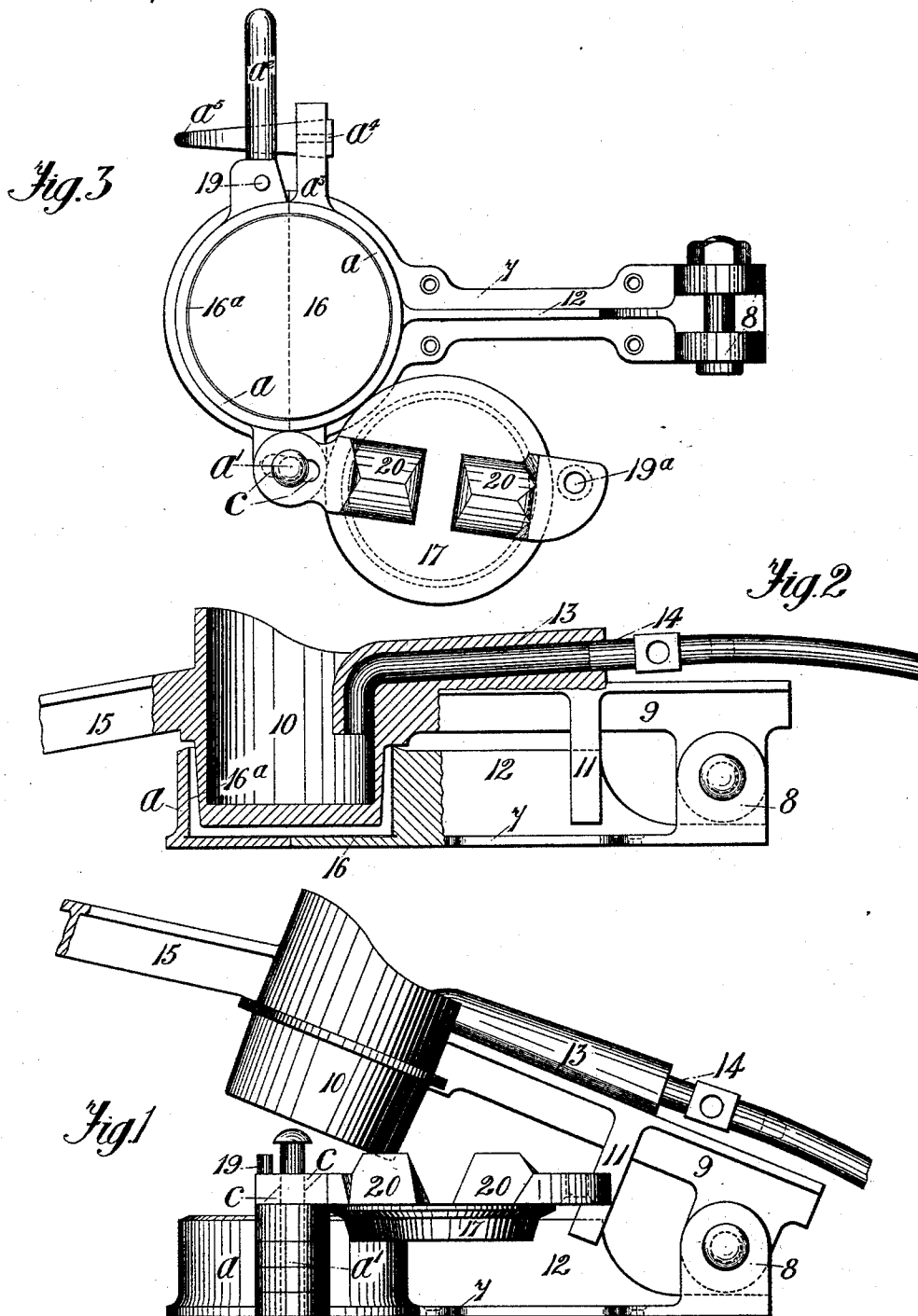


W. R. GAUDIE.
PIE RAISING AND LIDDING MACHINE.

No. 483,549.

Patented Oct. 4, 1892.



Witnesses
James Andrew Harvey
John Johnston

Inventor
W. R. Gaudie
by his attorney,
A. Crawhall, Chapman.

(No Model.)

2 Sheets—Sheet 2.

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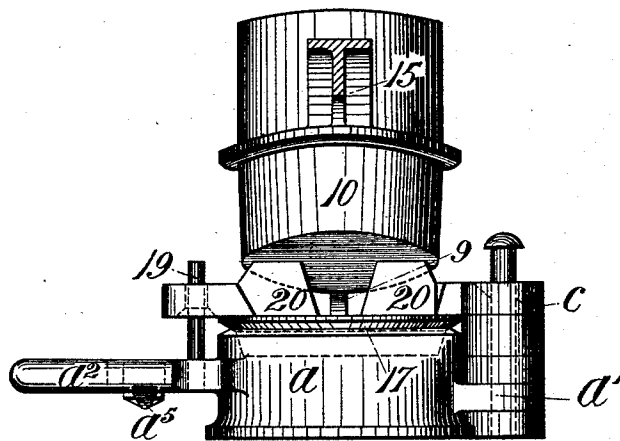


Fig. 4

Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM R. GAUDIE, OF JARROW, ENGLAND.

PIE RAISING AND LIDDING MACHINE.

SPECIFICATION forming part of Letters Patent No. 483,549, dated October 4, 1892.

Application filed May 31, 1892. Serial No. 434,939. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM ROBERT GAUDIE, a subject of the Queen of Great Britain and Ireland, and a resident of Jarrow, county of Durham, England, have invented an Improvement in Pie Raising and Lidding Machines, of which the following is a specification.

This invention relates to an improved pie raising and lidding machine, and is intended for the purpose of blocking or raising pies and fitting lids thereon. It can be made of brass or iron; and in order that my invention may be fully herein explained and rendered intelligible I will now refer to the accompanying drawings, in which—

Figure 1 shows a side elevation; Fig. 2, a side elevation, partly in section; Fig. 3, a plan, with the plunger hereinafter referred to removed, and Fig. 4 an end view of a machine constructed after my invention.

Throughout this description like marks of reference designate like parts.

Referring to the drawings, A is a mold hinged at A', so as to be capable of opening and shutting on this center.

A² is a handle on the movable portion of the mold to aid in opening and shutting the same, and A³ is a projection on the fixed part of the mold, secured to which is the spring-catch A⁴, which engages and disengages with handle A². To disengage, the end A⁵ of catch A⁴ is depressed. The engagement is automatic.

Formed in one with or attached to the mold is an arm 7, which may be provided with holes for screwing the machine down to a table or bench, and toward the end of the arm lugs 8 are formed, between which a corresponding lug on the arm 9 of the plunger 10 is centered or hinged. A fork 11 is provided on the arm 9, arranged to embrace the feather 12 on the arm 7, which thus serves as a vertical guide to the motions of the plunger, as hereinafter described. The plunger (shown in section in Fig. 2) is only designed to enter the mold a certain distance. The space between the plunger-bottom and the mold-bottom represents the thickness of the pie-bottom, and the sides of the pie are similarly formed between the plunger and the mold sides.

13 is a pipe formed on arm 9, fitted with a

gas-burner 14, to the outer end or nozzle of which a flexible gas-service pipe may be readily attached. This is for the purpose of warming the plunger and to improve the working of the pastry.

15 is a handle (shown broken off) for lifting and lowering the plunger.

16 is a tin disk and 16^a a tin ring, which fit, respectively, the bottom and sides of the mold, and thus act to prevent the pie being torn asunder when the mold is opened.

17 is the lidder, which may be hinged on an extension of the spindle A'. The upper and lower opposite edges of the hole in the lidder through which the spindle A' passes are beveled off, as shown at C. This is for the purpose of enabling the lidder to be lifted up at an angle, so that its projecting under side may clear the mold when it is required to swing the lidder round.

19 is a vertical stop screwed into or cast on the base of the handle A² on the movable portion of the mold A, and this stop engages with a corresponding recess 19^a on the lidder.

The under side of the lidder is formed as shown in the drawings for the purpose of shaping the pie and trimming its edges. For the latter purpose any ornamentation required may be obtained by corresponding formations on the edges of the lidder. The upper edges of the mold are beveled, so as to form a neat edge in cutting or shearing off the pastry, as hereinafter described. On the upper surface of the lidder suitable bearing-surfaces 20 are formed for the plunger to rest against.

The operation of the invention is as follows: The gas-jet having been lighted, first throw the plunger back and turn the lidder round out of the way of the mold. (See Fig. 3.) The mold having been opened by handle A² to insert the tin bottom piece and tin lining-ring close the mold. Then put enough pastry into the mold to make the bottom and sides of the pie and bring down the plunger onto the pastry, which will have the effect of squeezing a portion of the pastry upward into the annular space between the plunger and the mold, so as thus to form the bottom and sides of the pie. The heat of the gas burning in and issuing from the end of pipe 13 not only renders the pastry easier to work, but the warmth also has the effect of preventing the pastry adher-

ing to the plunger, which can thus be readily withdrawn from the mold without damaging the shape of the pie. The contents of the pie are then inserted and a pastry-lid of sufficient size laid over it. Now lift the lidder up and swing it round, as above described, into position over the mold and again bring down the plunger, which will force the lidder down into the mold, as shown in Fig. 4, fix the lid to the sides of the pie, cut off the pastry-edges around the pie-top, shape, and finish the pie. Finally, lift up the plunger and lidder and open the mold to remove the molded and lidded pie. It will be observed that in the operation just described the weight and leverage of the plunger is utilized to assist in the lidding operation.

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

A pie raising and lidding machine consisting of a mold adapted to be opened and shut horizontally and a lidder adapted to be lifted and swung round on a pivot on or contiguous to the mold, in combination with an arm and a gas-heated plunger carried thereby, the said arm being centered on an extension of the same frame or casting as the mold itself and having a handle to apply pressure to the plunger, the several parts being arranged and adapted to operate substantially as herein set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

W. R. GAUDIE.

Witnesses:

ALFRED CRAWHALL CHAPMAN,
JAMES ANDREW HARVER.