

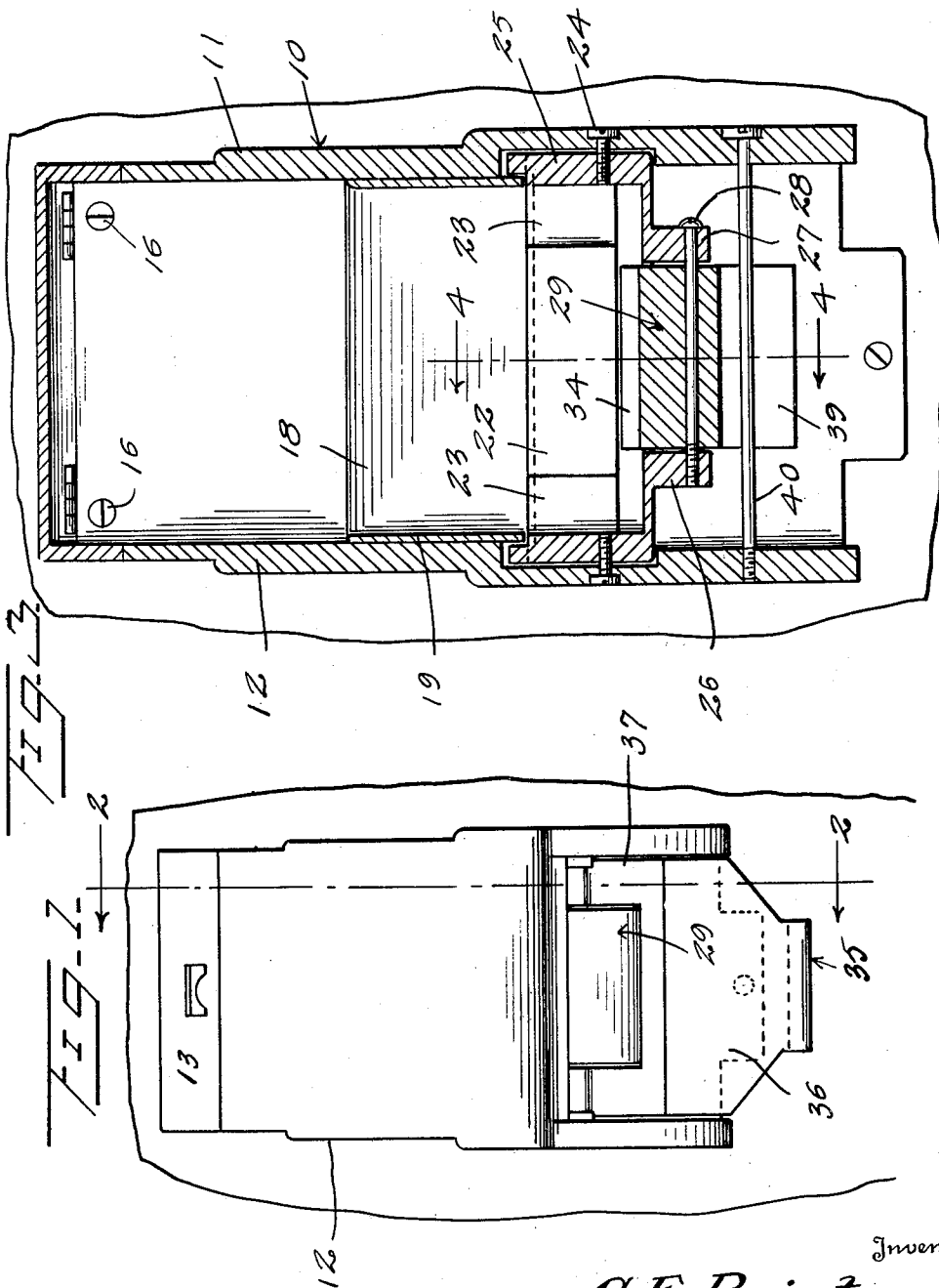
Feb. 14, 1950

C. E. POISTER
MATCH DISPENSER

2,497,371

Filed Aug. 5, 1946

2 Sheets-Sheet 1



Inventor

C.E. Poister

By *Kimmel & Crowell*
Attorneys

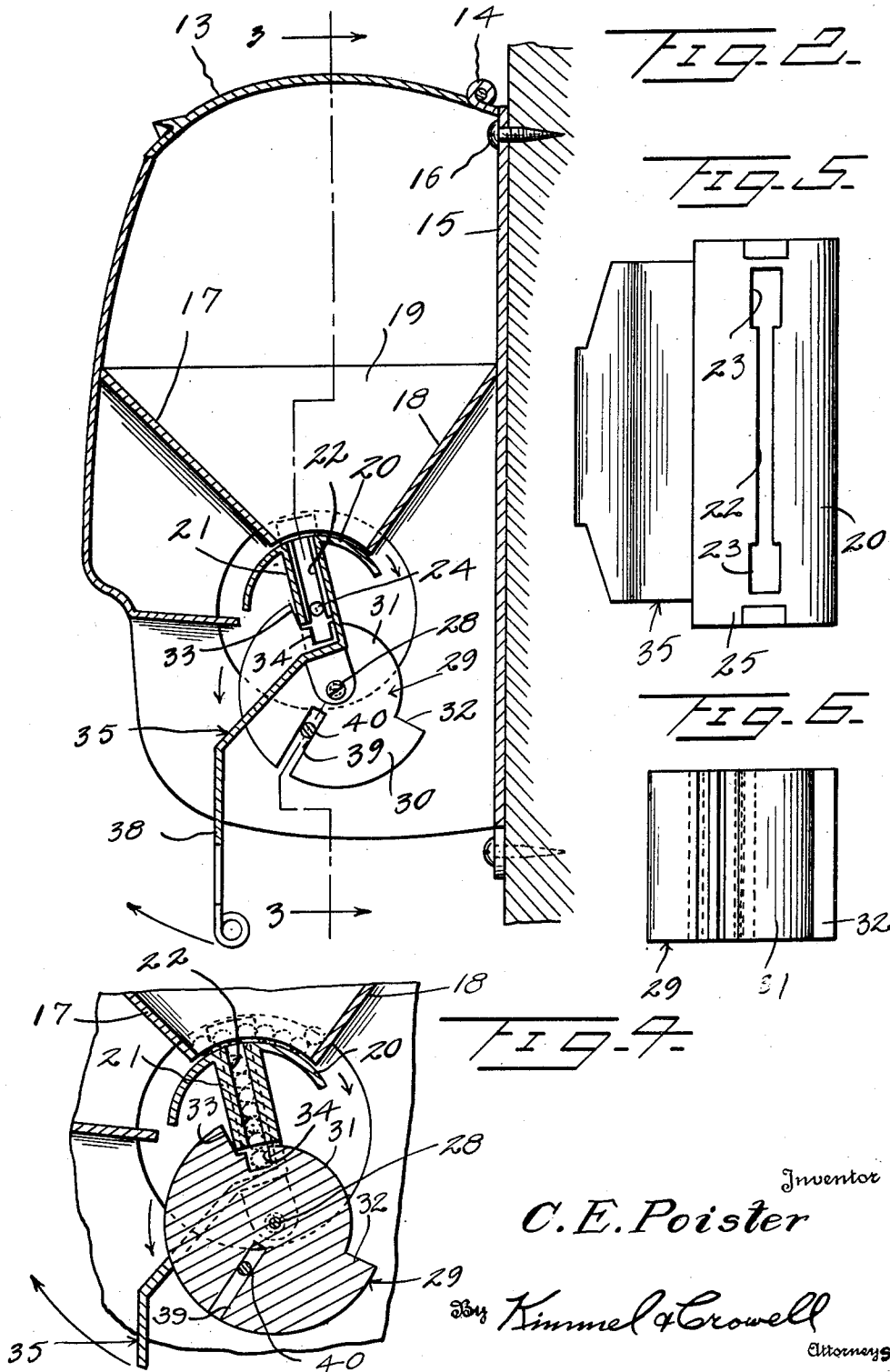
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UNITED STATES PATENT OFFICE

2,497,371

MATCH DISPENSER

Clarence E. Poister, Sabetha, Kans.

Application August 5, 1946, Serial No. 688,566

2 Claims. (Cl. 312-84)

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This invention relates to match and/or toothpick dispensers and is an improvement over the construction embodied in my prior patent, No. 1,752,108, dated March 25, 1930, for Match receptacle.

An object of this invention is to provide an improved dispenser of this type which will positively dispense or eject single articles, and will dispense all of the articles in the hopper.

A further object of this invention is to provide a dispenser of this type in which the number of operating parts is reduced, and the parts are of simple form so that the device will not get out of order.

A further object of this invention is to provide a device of this kind which is so constructed and arranged that the parts thereof can for the most part be made out of metal stampings, plastic, or like molded material.

A further object of this invention is to provide a dispenser of this kind wherein the articles will not become disarranged as they progress from the hopper to the ejector.

With the above and other objects in view, my invention consists in the arrangement, combination and details of construction disclosed in the drawings and specification, and then more particularly pointed out in the appended claims.

In the drawings, wherein similar reference characters designate similar parts throughout the respective views.

Figure 1 is a detail front elevation of a dispensing device constructed according to an embodiment of this invention,

Figure 2 is a vertical sectional view taken on line 2-2 of Figure 1,

Figure 3 is a vertical sectional view taken on line 3-3 of Figure 2,

Figure 4 is a fragmentary sectional view taken on line 4-4 of Figure 3,

Figure 5 is a plan view of the gate,

Figure 6 is a plan view of the delivery member.

Referring to the drawing, the numeral 10 designates generally a housing formed of opposite side walls 11, 12, and a hinged top wall or closure 13 carried by hinges 14. A rear wall 15 is fixed relative to the side walls 11, 12 and is adapted to be secured by fastener members 16 to a stationary support.

The housing 10 includes a pair of downwardly convergent inner walls 17, 18, forming a hopper 19, which is open at the lower end thereof. A transversely arcuate gate 20 is disposed at the lower ends of the walls 17, 18 and is adapted to normally close these walls. The gate 20 is car-

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ried by a radially disposed body 21 extending inwardly from the concave side of the gate, and formed with an elongated delivery slot 22 terminating at the opposite ends thereof in enlarged slots 23.

The body 20 is adapted to be pivotally secured between side walls 11, 12, by means of pivot members 24, which engage in the opposite ends 25 of the body 21. The body 21 has extending downwardly therefrom, a pair of ears 26, 27, through which a pivot member 28 extends. A delivery member generally designated as 29 is rockably mounted on the pivot member 28 between the two ears 26, 27. The delivery member 29 is formed of a substantially cylindrical body 30 which is formed with the reduced diameter portion 31 forming shoulders 32, 33.

The delivery member 29 is also formed with a lengthwise disposed slot 34 which is adapted to register with the slots 22, 23 when the delivery member 29 is in its inoperative position so that one of the articles passing through slots 22, 23 will drop into the delivery slot 34. An operative handle generally designated as 35 is fixed to the radial body 21 and extends forwardly and downwardly therefrom. The operator 35 includes a plate 36 which is formed with a pair of arms 37 which are fixed relative to the body 21. The operator 35 also includes a downwardly extending handle portion 38 projecting below housing 10.

The delivery member 29 is formed with a radial slot 39 through which a pin 40 fixed between the side members 11, 12 loosely engages. The pin 40 is adapted upon rotation of the gate 20 to cause the delivery member 29 to rotate in a counter movement, or in a counterclockwise movement as shown in Figure 2, in order to discharge or deliver a match or toothpick which is engaged within the slot 34.

In the use and operation of this device, the matches or toothpicks are dropped into the hopper 19 and will gradually move downward to engage gate 20. A series of the matches or toothpicks will be engaged in the slot 22, the enlarged end slots 23 being provided so that the heads of the matches may loosely engage therein. The lowermost match or toothpick will drop into slot 34 or delivery member 29. When the handle 38 is rocked to the left, as viewed in Figure 2, the gate 20 will be rocked clockwise and the delivery member 29 will be rocked counterclockwise. The match or toothpick engaging in the slot 34 will be discharged by rocking of the delivery member 29, and the reduced diameter portion 31 of the de-

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livery member 29 will close the lower ends of the slots 22, 23 to prevent delivery of more than one article at a time.

When the handle 38 is rocked in a counter-clockwise direction, the delivery member 29 will be rocked forwardly and the gate 20 will be rocked rearwardly to the positions shown in Figure 2. The next match or toothpick will then drop into the slot 34, which at this time, registers with the slot 22.

With a device as hereinbefore described, matches or toothpicks can be dispensed one at a time and the matches or toothpicks will be held against clogging by the configuration of the hopper and the slotted gate.

I do not mean to confine myself to the exact details of construction herein disclosed but claim all variations falling within the purview of the appended claims.

What I desire to claim is:

1. A dispenser as set forth comprising a hopper having a lower discharge opening, a transversely arcuate gate closing said discharge opening, said gate including an elongated slotted radial guide, means rockably mounting said gate and guide below said hopper, a delivery member below said guide formed with an elongated slot adapted in one position of said delivery member to register with said guide whereby to receive a single article, means rockably mounting said delivery member, an operator fixed relative to said guide and gate, and means correlated with said hopper and said

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delivery member whereby to rock said delivery member reversely from said guide and gate, said delivery member being so formed whereby upon rocking thereof to delivery position the slot of said guide will be closed.

2. A dispenser as set forth comprising a hopper having a lower discharge opening, a transversely arcuate gate closing said discharge opening, said gate including an elongated slotted radial guide, means rockably mounting said gate and guide below said hopper, a delivery member below said guide formed with an elongated slot adapted in one position of said delivery member to register with said guide whereby to receive a single article, means rockably mounting said delivery member, an operator fixed relative to said guide and gate, and a horizontally disposed bar fixed below said hopper, said delivery member having a second slot within which said bar loosely engages whereby rocking of said gate will effect swinging of said delivery member and simultaneously reversely rotate said delivery member to delivering position.

CLARENCE E. POISTER.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,061,926	Ratzlaff	May 13, 1913