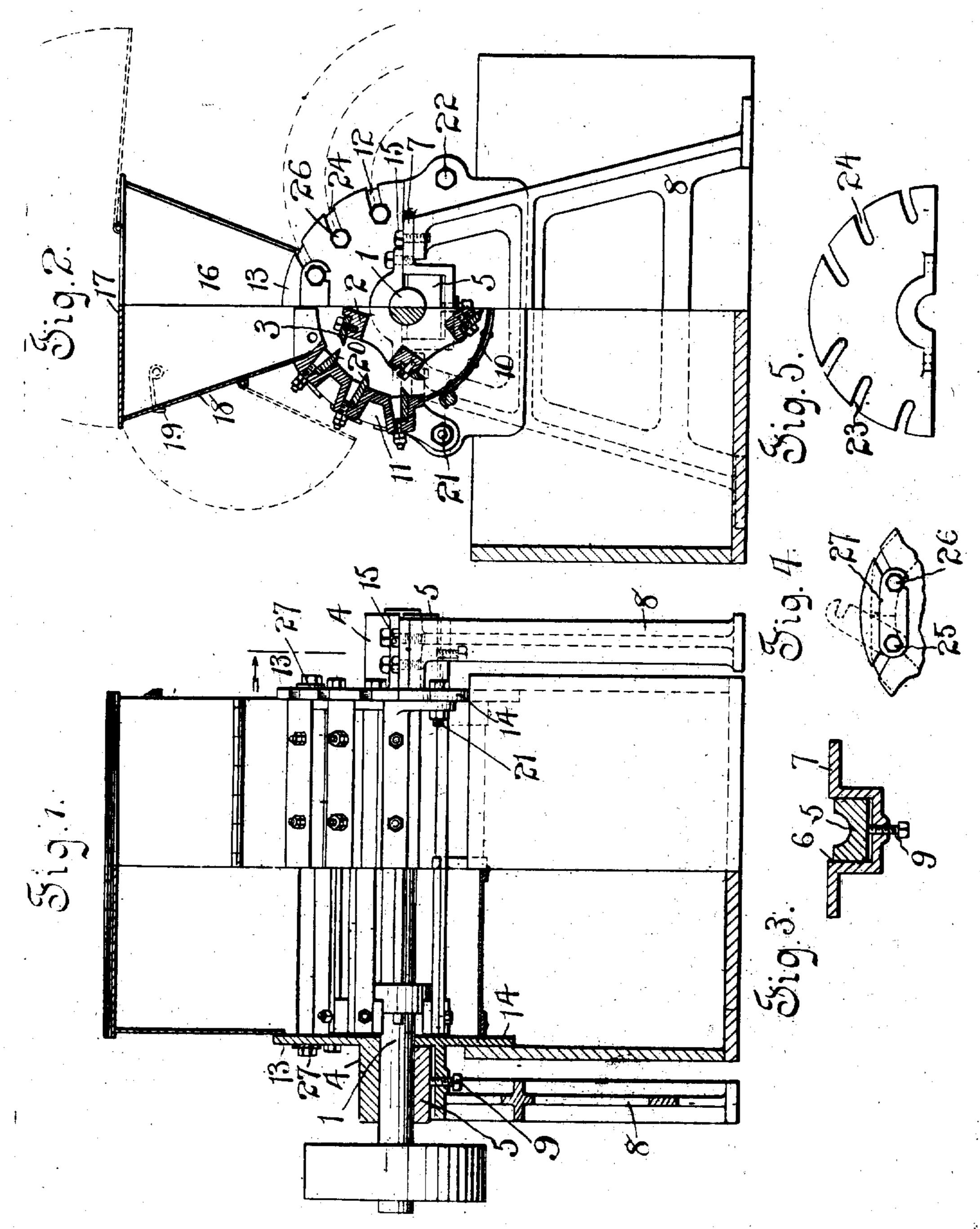
C. F. BALL.
ROTARY CUTTER.
APPLICATION FILED MAY 14, 1907.

900,254.

Patented Oct. 6, 1908.



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UNITED STATES PATENT OFFICE.

CHARLES F. BALL, OF RICHMOND HILL, NEW YORK, ASSIGNOR TO BALL & JEWELL, OF BROOKLYN, NEW YORK, A FIRM.

ROTARY CUTTER.

No. 900,254.

Specification of Letters Patent.

Patented Oct. 6, 1908.

Application filed May 14, 1907. Serial No. 373,651.

To all whom it may concern:

citizen of the United States, and resident of Richmond Hill, in the countr of Queens and 5 State of New York, have invented a new and useful Improvement in Rotary Cutters, of which the following is a specification.

This invention consists in improvements in rotary cutters of that type which are used 10 for reducing various matters to fragments.

The object of this invention is to provide certain improvements in the construction, form and arrangement of the several parts of a rotary cutter whereby the operation of 15 the machine will be facilitated.

A practical embodiment of my invention is represented in the accompanying draw-

ings, in which Figure 1 is a half front view and half ver-20 tical longitudinal section of the machine, Fig. 2 is a half end view and half tranverse vertical section of the machine, Fig. 3 is a detail sectional view showing the adjustable lower half bearing for the rotary cutter 25 shaft, Fig. 4 is a detail view showing one of with elongated slots 23, 24, opening through piece and which are arranged to engage the | the end plates and being concentric with of the cheek pieces against outward move-30 ment, and Fig. 5 is a detail view of the upper half of one of the end plates, which also in-

shaft. 35 and it is provided with any suitable number of cutter heads 2, to which the rotary cutters 3 are secured. This rotary shaft is mounted between upper half bearings 4 and lower adjustable half bearings 5, the lower half bear-40 ings being guided in their vertical adjustments within recesses 6 in top plates 7 to which the legs 8 are secured. An adjusting screw 9 is provided for each lower half bear-45 the top plate 7 and bears against the bottom pieces are hinged having elongated slots con-50 upper half sections 13 and lower half sec- pieces against outward movement. tions 14. The upper half sections 13 of the 1 2. In a rotary cutter, a bottom screen, 105

| tegral with the top plates 7. Bolts 15 serve 55 Be it known that I, Charles F. Ball, a to secure the upper half bearings, the top itizen of the United States, and resident of plates and the legs together, leaving the screws 9 free to adjust the lower half bearings thus forming a very simple and effective device for taking up wear in the 60 bearings without disturbing any of the other parts of the machine. A feed opening is left between the free ends of the cheek pieces 11 and 12 and a hopper 16 is secured in position to direct the material to be dis- 65 integrated, to the cutters. This hopper is preferably made of sheet metal and is provided with a top hinged door 17 and a front hinged door 18.. The front hinged door 18 is held closed by suitable latches 19.

The cheek pieces 11 and 12 are provided with the usual stationary adjustable cutters 20. The cheek pieces 11 and 12 of the casing are hinged at 21, 22, to the lower half sections of the end plates. To permit these 75 cheek pieces to be readily swung outward without dismounting the parts, the upper half sections of the end plates are provided the latches which are hinged to one cheek the periphery of the upper half sections of 80 other cheek piece for lo king the free ends the hinges 21, 22, of the cheek pieces. Bolts 25, 26, are located within the elongated slots 23, 24, and have their heads bearing against the outer faces of the upper half sections of 85 cludes the upper half bearing for the cutter | the end plates so that when the bolts are screwed home the cheek pieces will be The rotary cutter shaft is denoted by 1 clamped rigidly to the end plates. To prevent the free ends of the check pieces from unintentionally spreading apart when sub- 90 jected to great strain, I provide latches 27, each of which is hinged to a bolt 25 on one of the cheek pieces and is fitted to interlock with a bolt 26 on the other check piece as clearly shown in Fig. 4.

What I claim is:— 1. In a rotary cutter, a bottom screen, ing 5, which adjusting screw passes through cheek pieces, end plates to which the cheek of the said lower half bearing. A casing is centric with the hinges and opening through 100 formed around the rotary cutters, which cas- the sides of the end plates, bolts in said slots ing comprises a bottom screen 10, cheek for clamping and releasing the cheek pieces pieces 11, 12, and end plates consisting of and means for absolutely locking the cheek

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end plates are formed integral with the up- cheek pieces, end plates to which the cheek per half bearings 4 and the lower half sec- pieces are hinged having elongated slots contions 14 of the end plates are formed in- | centric with the hinges and opening through

the sides of the end plates, bolts in said slots for clamping and releasing the cheek pieces and means engaging certain of the bolts for absolutely locking the cheek pieces against outward movement.

In testimony, that I claim the foregoing as my invention, I have signed my name in

presence of two witnesses, this twenty-sixth day of April 1907.

CHARLES F. BALL.

Witnesses:

F. GEORGE BARRY, HENRY THIEME.