(No Model.)

J. O. EASTERLING.

SUGAR CANE PRESS.

No. 544,972. Patented Aug. 20, 1895.

Fig. I.

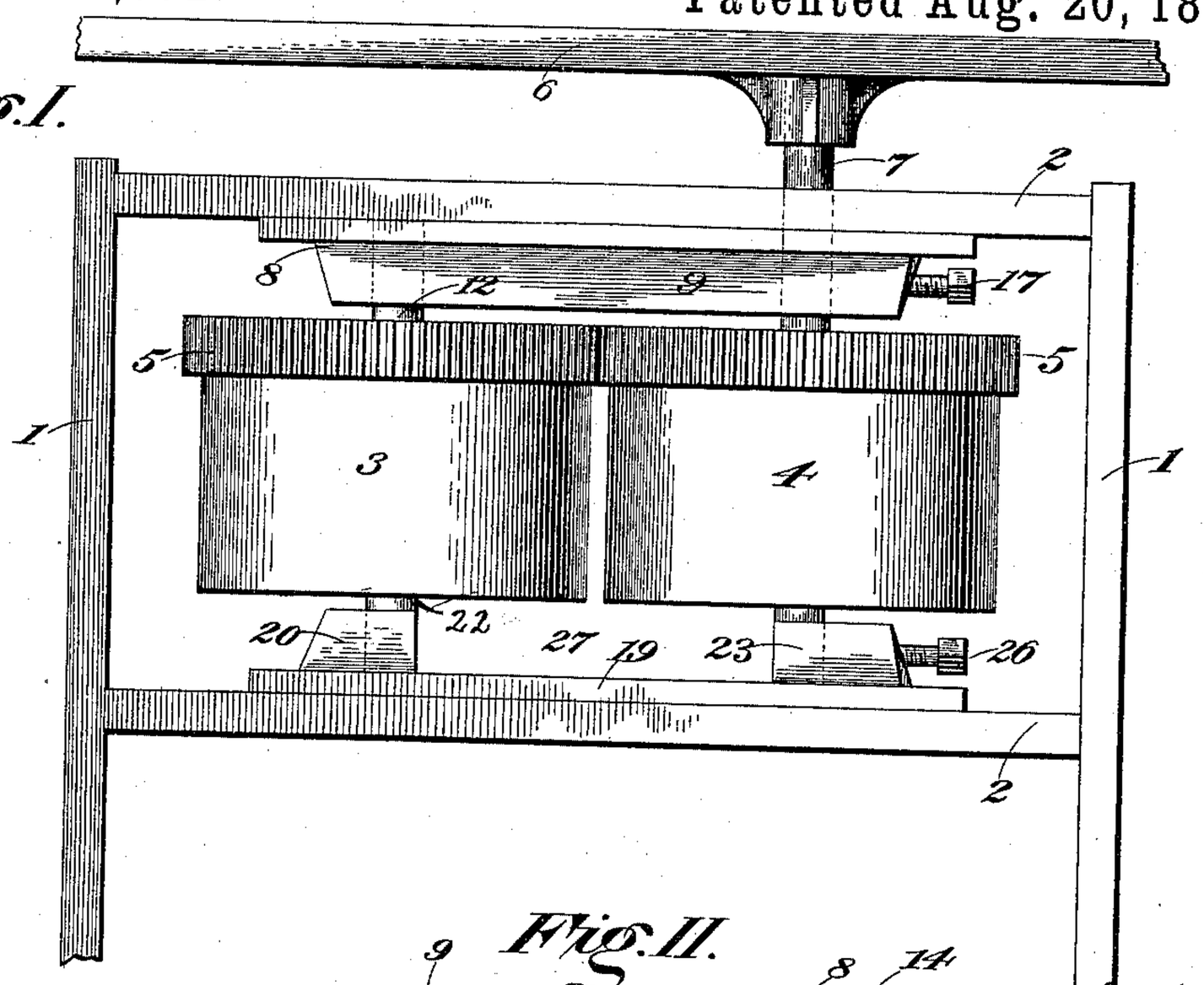


Fig. II.

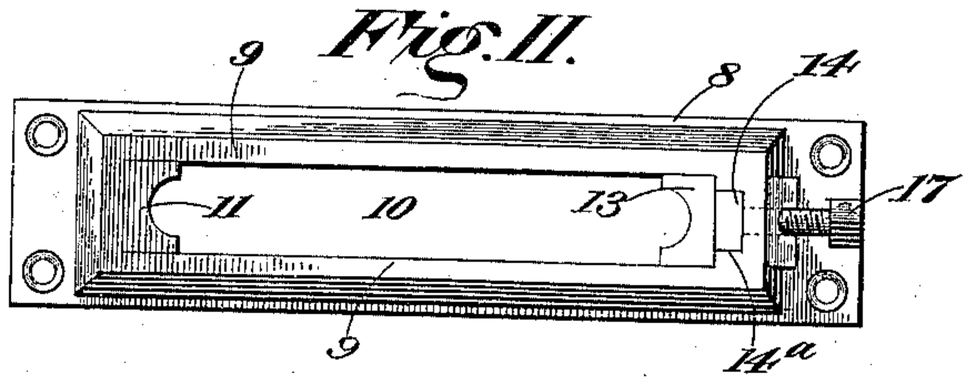


Fig. III.

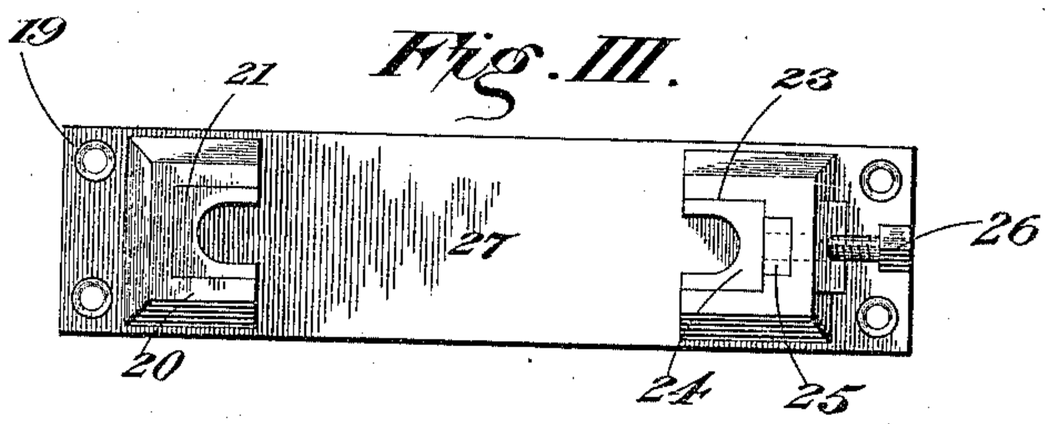
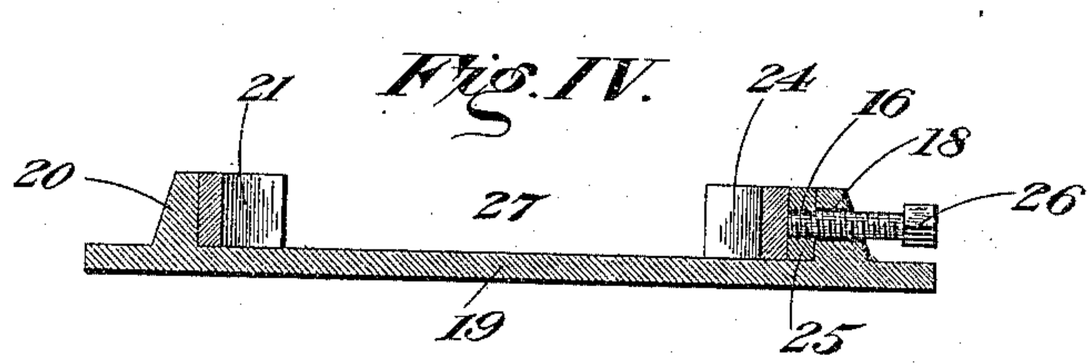


Fig. IV.



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UNITED STATES PATENT OFFICE.

JAMES O. EASTERLING, OF GLENNVILLE, GEORGIA.

SUGAR-CANE PRESS.

SPECIFICATION forming part of Letters Patent No. 544,972, dated August 20, 1895.

Application filed March 14, 1895. Serial No. 541,798. (No model.)

To all whom it may concern:

Be it known that I, JAMES O. EASTERLING, of Glennville, county of Tattnall, State of Georgia, have invented certain new and useful Improvements in Sugar-Cane Presses, of which the following is a specification, reference being had to the accompanying drawings.

The object of my invention is to produce improved mechanism for adjusting the relations of the rollers of a cane-mill.

In the accompanying drawings, Figure I is a side elevation of a mill provided with my roller-adjustment mechanism. Fig. II is a plan view of one of the boxes detached. Fig. III is a plan view of the other box. Fig. IV is a longitudinal section of one of the boxes, designed to show in detail the adjustment mechanism, which is similar in both boxes.

Referring to the figures on the drawings, 1 indicates uprights, and 2 cross-pieces, which are united in any suitable and ordinary manner to form the frame of a mill.

3 indicates one roller, and 4 the other, each being cogged, as indicated at 5, so that both may be driven as by a lever 6, secured to the journal-shaft 7 as of the roller 4.

8 indicates the upper journal-box, which is provided with oblong walls 9 and an interior aperture or oblong recess 10. In one end of the recess 10 a journal-block 11 is fixed, being partly secured by the walls with which it engages and by the journal 12 of the roller 3, which it carries. A similar journal-block 13 is secured in the other end of the recess 10 and carries the journal of the shaft 7, which extends entirely through the recess 10.

14 indicates a screw-block that fits snugly within the recess 14 and is provided with an interiorly-threaded aperture 16, within which a screw-bolt 17 works. The screw-bolt turns loosely within a smooth aperture 18 in the end of the box 9. Working in the block 14 and abutting against the end of the journal-block 13, it operates the journal-block to regulate the position of the roller 4 with respect to the roller 3.

The box 9 may be in practice constructed of ordinary cast metal. By the employment of the separate screw-block 14 and journal-block 13 these parts may be renewed readily and at small expense; also the journal-blocks may be made of any desired material, and the screw-block may be made of steel capable of resisting the heavy pressure to which, in practice, they are subjected.

19 indicates the base-plate of the lower box, which is provided at one end with a journal-block compartment 20, within which is fitted a journal-block 21, that carries the journal 22 of the roller 3. At the opposite end of the base-plate 19 a journal-block compartment 23 is provided with a block 24, a screw-block 25, and a screw-bolt 26, constructed and assembled similarly to the analogous parts in the upper journal-box. By the employment of separate journal-block compartments upon the lower plate 19 an intermediate space, as indicated at 27, is provided, into which the journals of the rollers may be slipped for setting the rollers in place or for removing them to make repairs.

What I claim is—

The combination with an oblong upper journal box having continuous walls, an internal screw block recess and an aperture at one end, journal blocks located within the journal box at its opposite ends, an internally screw threaded screw block within the recess, and a screw passed through the aperture in the screw block engaging the threads in the block and abutting against one of the journal blocks, said blocks having semi-cylindrical recesses in their adjacent faces, of a plurality of separate journal boxes below the upper journal boxes provided with journal blocks, and journal block adjusting mechanism, the opposing faces of the lower journal blocks being provided with semi-cylindrical recesses and the space between the sides of the lower journal boxes being unobstructed, and a plurality of cog rollers provided with journals, substantially as specified.

In testimony of all which I have hereunto subscribed my name.

JAMES O. EASTERLING.

Witnesses:
JOS. P. COLLINS,
JOS. D. DE LOACH.