

No. 662,689.

Patented Nov. 27, 1900.

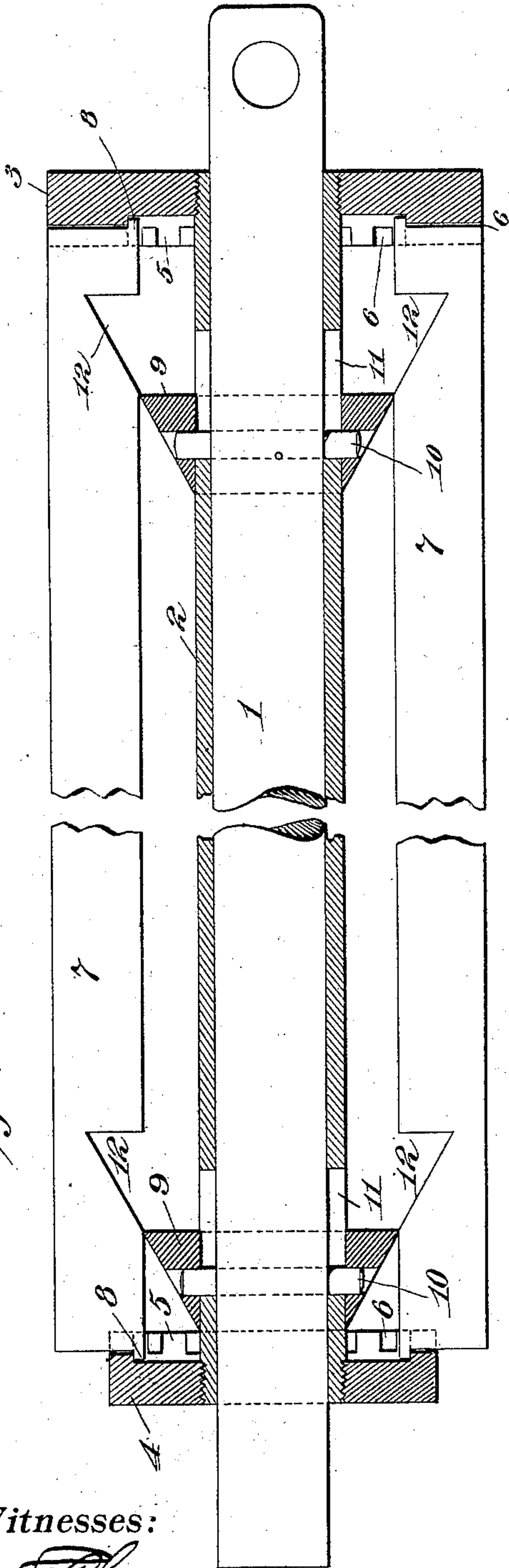
F. L. DYER.

CORE FOR CYLINDRICAL BALING PRESSES.

(Application filed Nov. 9, 1899.)

(No Model.)

Fig. 1



Witnesses:

John F. Coleman

John R. Taylor

Fig. 3

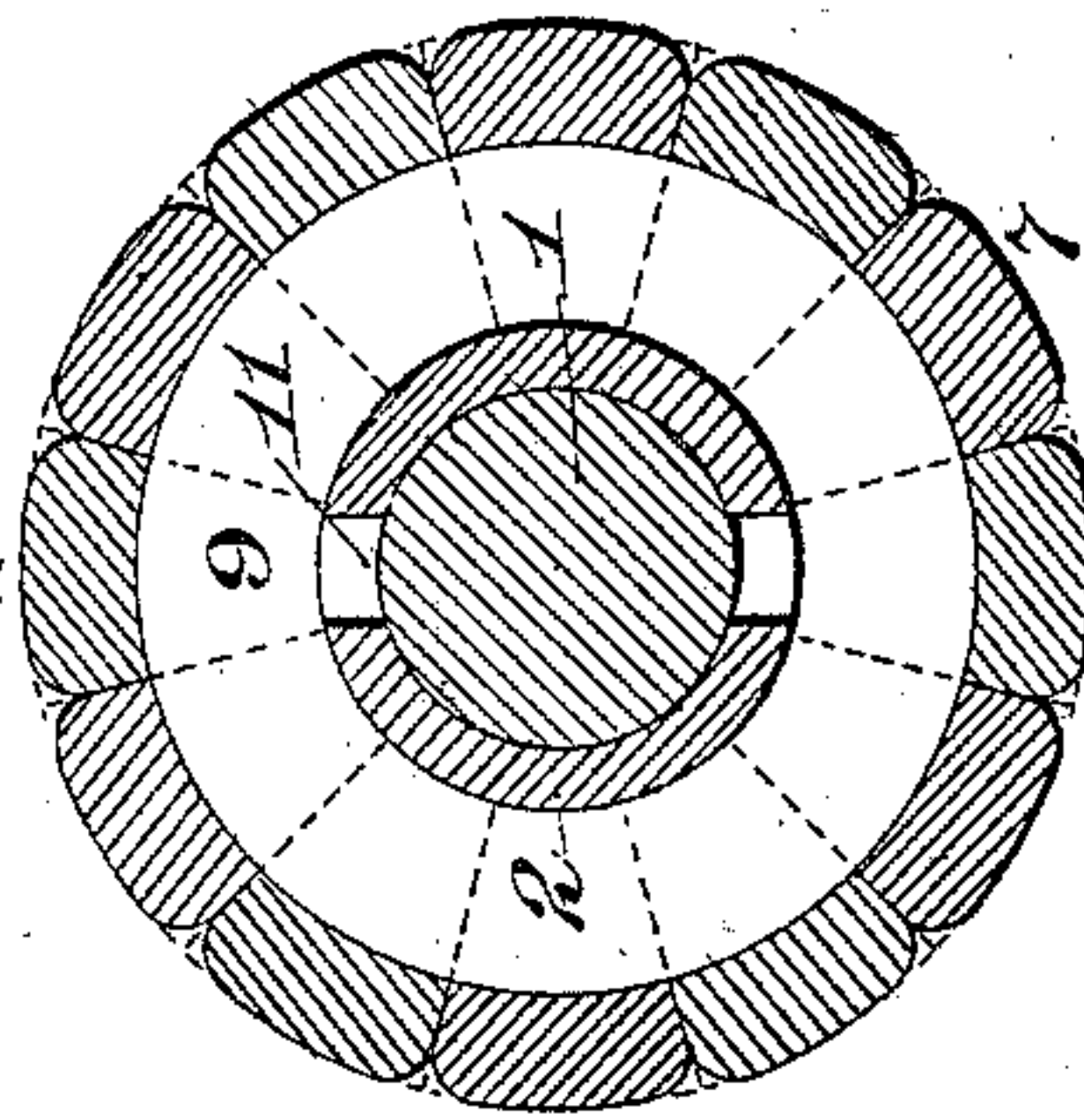
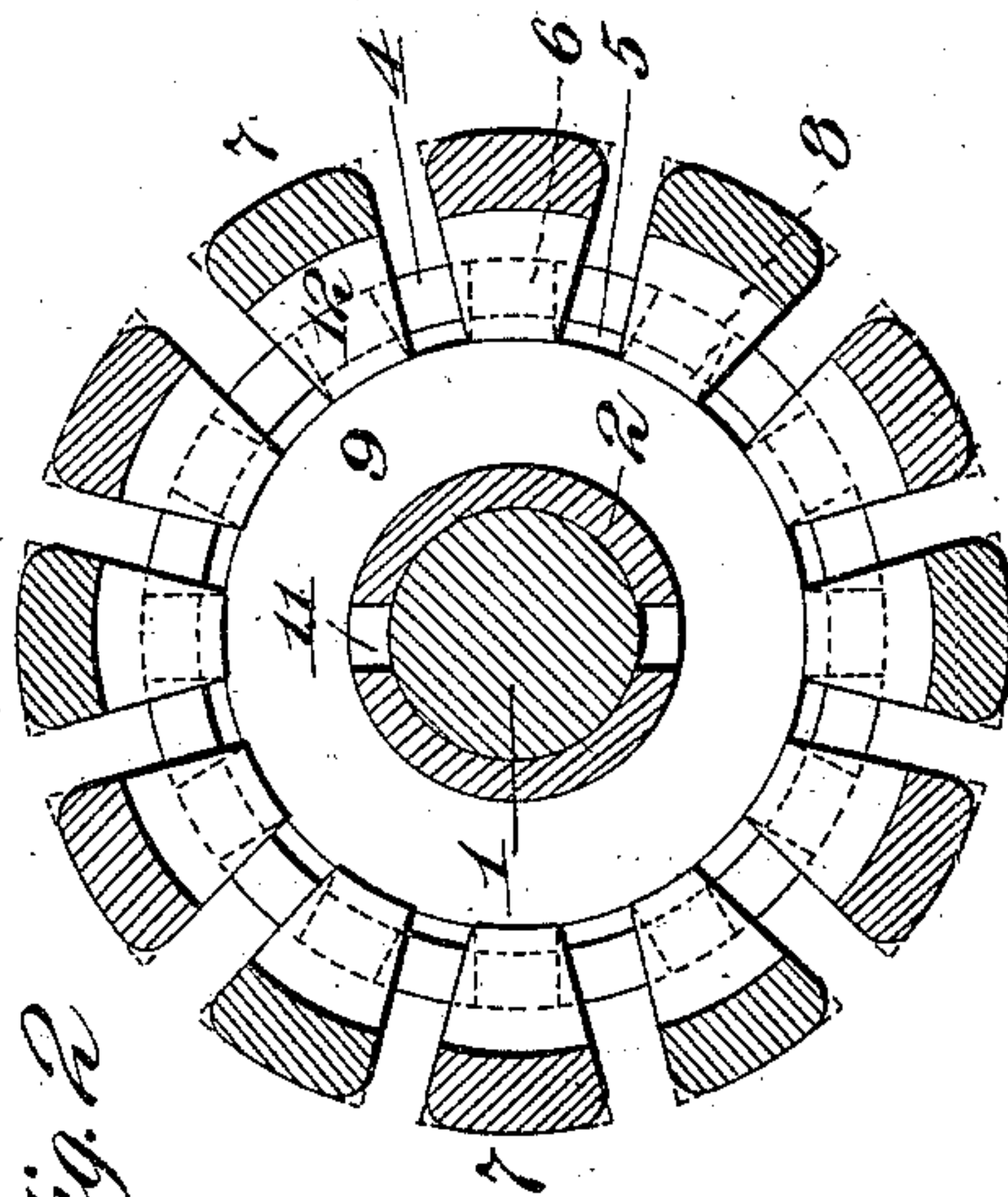


Fig. 2



Inventor

Frank L. Dyer



# UNITED STATES PATENT OFFICE.

FRANK L. DYER, OF MONTCLAIR, NEW JERSEY, ASSIGNOR TO THE  
AMERICAN COTTON COMPANY, OF NEW YORK, N. Y.

## CORE FOR CYLINDRICAL-BALING PRESSES.

SPECIFICATION forming part of Letters Patent No. 662,689, dated November 27, 1900.

Application filed November 9, 1899. Serial No. 736,352. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK L. DYER, a citizen of the United States, residing at Montclair, in the county of Essex and State of New Jersey, have invented a certain new and useful Improvement in Cores for Cylindrical-Baling Presses, (Case No. 37,) of which the following is a description.

My invention relates to improvements in cores adapted for use in cotton-presses wherein a continuous sheet or bat of cotton is wound up under pressure in a cylindrical bale; and the object of the invention is to produce a simple construction of core which when desired may be collapsed or reduced in diameter, so as to be more readily removed from the finished bale.

In order that my invention may be better understood, attention is directed to the accompanying drawings, forming part of this specification, and in which—

Figure 1 is a longitudinal sectional view of my improved core; Fig. 2, a cross-section showing the parts expanded, and Fig. 3 a similar view showing the parts collapsed.

In all of the above views corresponding parts are represented by the same numerals of reference.

1 represents a main spindle, which is longitudinally movable within a sleeve 2. The sleeve 2 carries at its ends two disks 3 and 4, one preferably of smaller diameter than the other. Each disk is provided with a rim 5, in which are formed a series of radial slots 6. Working in these slots are tenons formed on the ends of the bars or segments 7 of any suitable number. These bars or segments are provided with lugs 8 at their ends, which engage beneath the rims 5 5 of the two disks 3 and 4, so as to limit the outward or expanded movement of the bars. When the bars occupy their outward or expanded position, (shown in Fig. 1,) the outer surface of the disk 3 extends substantially flush with the outer surface of said bars, and when the said bars occupy their inner positions (shown in Fig. 3) the outer surface of the disk 4 extends substantially flush therewith. The purpose of making the disk 3 of larger diameter than the disk 4 is to secure greater extent of

the slots or grooves 6, so as to more firmly strengthen the bars 7 against torsional strains. It is necessary that the disk 4 should be sufficiently small so as not to project beyond the surfaces of the bars 7 when the said bars occupy their inner or collapsed position (shown in Fig. 3) in order that the core may be removed from the bale, as will be understood. The bars 7 are moved to their outer position and are allowed to be moved inward, when it is desired to collapse the core, by any suitable mechanism, that shown being the preferred embodiment of the invention. Two conical sleeves 9 9 are secured to the spindle 1 by means of pins or bolts 10, which work in slots 11 11 in the sleeve 2. The bars 7 are formed with notches 12 12, which cooperate with the conical sleeves 9, as will be understood.

In Fig. 1 the spindle 1 has been moved to the left, so as to withdraw the conical sleeves 9 9 from the notches 12, forcing the bars 7 outward and holding them locked in such position. With the bars in this position the core is used in any suitable form of cotton-press and a bale is formed thereon in the usual way. After the bale has been formed a suitable tackle or other device is applied to the spindle 1—as, for instance, by means of the opening shown therein—whereby the spindle 1 will be moved relatively to the sleeve 2, bringing the conical sleeves 9 9 into line with the notches 12 and permitting the bars 7 to move inward to the collapsed position shown in Fig. 3. When in this position, the core can more easily be removed from the bale.

Having now described my invention, what I claim as new, and desire to secure by Letters Patent, is as follows:

1. In a core for cotton-presses, the combination of two disks having radial slots therein, a sleeve connecting said disks, a series of bars mounted in said slots, and means for moving said bars radially, substantially as set forth.

2. In a core for cotton-presses, the combination of two disks having radial slots therein, a series of parallel bars mounted in said slots, a sleeve connecting said disks, a spindle mounted within said sleeve, and means

operated by said spindle for moving said bars radially, substantially as set forth.

3. In a core for cotton-presses, the combination of two disks having radial slots therein, a series of parallel bars mounted in said  
5 slots, a sleeve connecting said disks, a spindle mounted within said sleeve, and a conical sleeve connected to said spindle and cooperating with notches in said bars for mov-

ing said bars radially, substantially as set forth.

This specification signed and witnessed this 6th day of November, 1899.

FRANK L. DYER.

Witnesses:

ARCHIBALD G. REESE,  
JNO. R. TAYLOR.