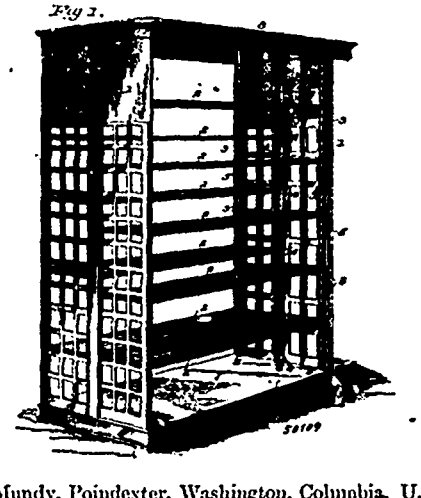
slot at its lower end, a movable bearing on the upper end of each of the supports, a polishing iron journalled in said bearing, one end of which is provided with a driving wheel, a friction roller journalled in the bearings at the lower ends of the supports one end of which is provided with a driving wheel, and an ironing table between the roller and the iron, substantially as set forth. 2nd. In an ironing machine, the combination of a frame, a reciprocatory ironing board, a rotatable polishing iron and bearings for the journals of said iron, said bearings formed with plates E^1 E^1, having balls or rollers held in place therebetween adjacent to said journals, substantially as set forth. 3rd. In an ironing machine, the combination of a frame, a reciprocatory ironing board, a friction roller below the ironing board to reciprocate the board, and a rotatable polishing iron above the ironing board, the axis of the polishing iron and the shaft of the friction roller provided with sprocket wheels, and a sprocket chain engaged with said wheels to rotate the polishing iron, simultaneously with the rotation of the friction pulley, substantially as set forth. 4th. In an ironing machine, the combination of a frame, a reciprocatory ironing board, a polishing iron, supports, bearings for the journals of said polishing iron, vertically reciprocatory in said supports, an arm G engaged with each of said bearings, a spring upon said arm to effect the desired normal pressure of the polishing iron upon the ironing board, and a foot lever H bearing against the lower end of the arms G to lift the polishing iron out of normal engagement with the ironing board, substantially as set forth. 5th. In an ironing machine, the combination of a frame constructed of piping, supports F, a metal strap F^2 to unite said supports to the frame, bearings E constructed with plates E^1, E^1, having a reciprocatory movement in said supports, a rotatable polishing iron journalled in said bearings, an arm G engaged at its upper end between said plates and provided with a spring, a travelling ironing board, and a foot lever bearing against the lower end of said arm, substantially as and for the purpose set forth. 6th. In an ironing machine, the combination with a frame, of supports secured thereto, a reciprocatory ironing table on the frame, movable bearings in the supports, each bearing composed of two perforated plates, the outer edges of which are cut away to engage with the supports, and the portions around the perforations being also recessed or cut away, anti-friction bearings in the recesses around the perforations, a polishing iron journalled in the perforations, and means for reciprocating the table, substantially as set forth. 7th. In an ironing machine, the combination with a frame, the top side pieces of which are each perforated, of a support secured to each of the side pieces adjacent the perforation, each support having a perforated cross arm, a vertically movable bearing in the upper end of each support, an arm secured to said bearing and projecting through the cross arm and the side of the frame, an adjusting nut on the arm, a spring between the cross arm and the nut, a polishing iron journalled in said bearings, a treadle pivotally secured to the frame, the upper end of which is adapted to engage with the lower ends of said spring actuated arms, and a reciprocatory table under the polishing iron, substantially as set forth. 8th. In an ironing machine, the combination with a frame, of supports secured thereto, each support having its lower end provided with a bearing, and one of the supports being provided with a slot at its lower end, a movable bearing in the upper end of each of the supports, a polishing iron journalled in the bearings, one end of which is provided with a sprocket wheel, a friction roller journalled in the bearings at the lower ends of the supports, one end of which is provided with a sprocket wheel, an ironing table between the roller and the iron, a stud adjustably secured in said slot in one of the supports, a sprocket wheel upon the stud and a chain over said sprocket wheels, substantially as set forth.

No. 50,109. Book-case. (*Bibliothèque.*)

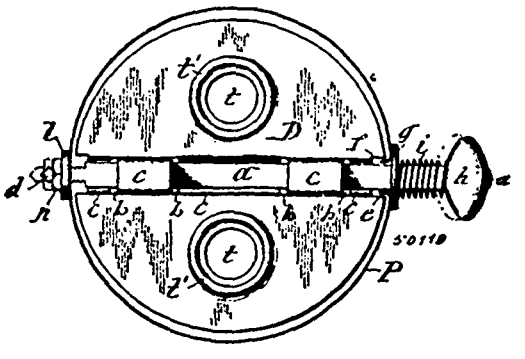
Fig 1.



William Mundy, Poindexter, Washington, Columbia, U.S.A., 1st October, 1895; 6 years.

Claim.—1st. In a book-case, means for adjustably supporting shelves consisting of a series of suitably spaced projections at the inner portion of each side, and a series of correspondingly spaced projections on the outer portion of each side constructed to engage the shelf at the proper point and so located with respect to the inner series and with respect to bearings of the shelves that the shelf passed in over any pair of front supports will be directed down upon the corresponding pair of rear supports, as explained. 2nd. In a book case, the combination of front and rear supporting projections spaced apart and corresponding pair and pair as shown, and shelving constructed to engage the front supports and to swing thereon, the front supports being so located with respect to the rear supports, that the arc in which the rear bearing of the shelf swings will include the corresponding rear supports but exclude those above them, as explained. 3rd. As a means for adjustably supporting shelves the combination of a series of rear supports, suitably spaced apart to give the desired range of adjustment, a series of front supports correspondingly spaced apart and a shelf recessed to engage the front support and swinging thereon, said front supports being spaced apart from their corresponding rear ones, a distance which will cause the rear bearing of the shelf to pass in front of the next higher rear support and swing down upon the proper rear supports to level the shelf, as explained. 4th. In a book-case or analogous structure, the combination of a series of suitably spaced fixed rear supports, correspondingly spaced front supports and a shelf adapted for engagement by the front supports, said front supports being movable into and out of active position at will and located at points to cause the shelf to swing thereon down upon the corresponding rear support without interference with supports above the latter, as explained. 5th. A support for the shelves of book-cases or analogous purposes, consisting of the dog 3, mounted as explained to permit it to be turned up out of active position and counterbalanced inward, as and for the purpose explained. 6th. The herein-described support for the shelves of book-cases or for analogous purposes, consisting of the dog 3 having a trunnion to permit it to be turned up out of position, counterbalanced inward to permit it to stand in vertical position, and having means for limiting inward movement, as explained. 7th. As a new article of manufacture, means for supporting shelving at any desired height, consisting of the channel iron having its connecting web slotted at regular distances apart and a series of dogs trunnioned between the flanges of the channel iron, projecting through the recesses, adapted to be held in horizontal position by the lower sides of the recesses and adapted to fold upward into the recesses when not in use, substantially as explained. 8th. As a new article of manufacture, means for supporting shelving at any desired height consisting of the plate or mounting having slots formed in its face and the series of dogs mounted in said plate so as to fold in and out of the slots, supported at points to counterbalance them inward in vertical position and having means to limit the inward movement, substantially as explained.

No. 50,110. Stove-Pipe Damper. (*Clé de tuyau de poêle.*)



Charles Treadwell Redfield, Glen Haven, New York, U.S.A., 1st October, 1895; 6 years.

Claim.—1st. A damper having its shaft provided with a retainer, connected thereto longitudinally adjustable to permit the damper to be secured in pipes of different diameters, as set forth. 2nd. In combination with a stove-pipe or analagous pipe, a damper having its shaft formed angular in cross-section and screw-threaded at one end, a washer provided with a corresponding angular eye for the reception of said shaft and formed with an angular recess in its outer face, the nut seated in said recess, and a spring forcing the shaft longitudinally to normally retain the nut in said recess when required, as set forth. 3rd. The combination, with a stove-pipe having in its side a perforation with outward projecting burs around said perforation, a damper in said pipe, a damper-shaft passing through the aforesaid perforation, a cup-shaped washer on the shaft and receiving in it the bur of the perforation, and a shaft-retainer on the protruding end of the shaft, as set forth. 4th. The combination, with a stove-pipe or analogous pipe, of a damper having its shaft protruding through the sides of the pipe and screw-threaded on one end, a washer on the exterior of the pipe and locked on said