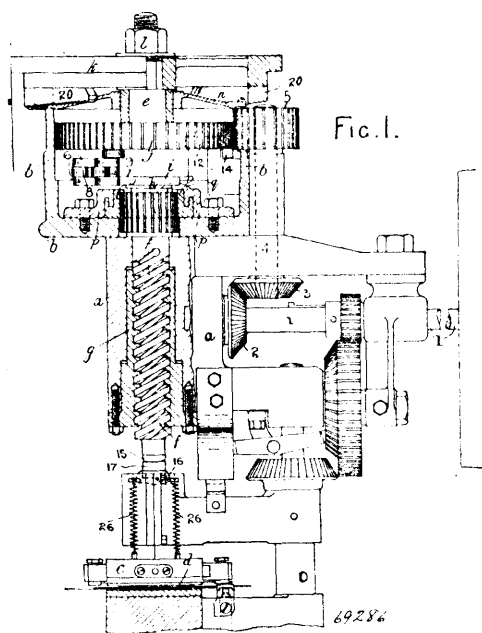


**No. 69,286. Press for Printing or Embossing.***(Presse à imprimer et bosseler.)*

The Johnston North American Patents Company, assignee of Joseph Yardley Johnston, both of 22 Bride Lane, Fleet Street, London, England, 13th November, 1900; 6 years. (Filed 7th March, 1900.)

**Claim.**—1st. In a printing, an embossing, or a printing and embossing press, impression mechanism comprising a weighted screw plunger, a fixed nut in which said plunger works, a continuously rotating part mounted on said plunger, means whereby said plunger and rotating part are intermittently coupled, means whereby said plunger is temporarily locked in its raised position and whereby it is subsequently released, and springs which are compressed by the upward movement of the plunger and subsequently re-act thereon so as to cause its rapid descent when released, as set forth. 2nd. In a printing, an embossing, or a printing and embossing press, impression mechanism comprising a weighted screw plunger, a fixed nut in which said plunger works, means whereby said plunger is successively raised, locked and released, a rack engaging with a pinion formed upon said plunger, and a spring arranged in the path of said rack and adapted to be compressed thereby during the upward movement of the plunger, as set forth. 3rd. In a printing, an embossing, or a printing and embossing press impression mechanism comprising a weighted screw plunger, a fixed nut in which said plunger works, a pinion screwed to said plunger, a rack engaging said pinion, an abutment, a spring arranged between said rack and abutment so as to be compressed as the rack is moved by the rise of the plunger, a connector secured to said plunger, a continuously rotating part loosely mounted on said plunger, and adapted to intermittently engage said connector, a fixed cam adapted to cause the disengagement at the required time of said connector and part, a locking device adapted to engage said connector after its disengagement from said rotating part and a connector releasing cam carried by said continuously rotating part, as set forth. 4th. In impression mechanism of printing, embossing or printing and embossing presses, the combination of a weighted screw plunger, a link pivotally connected to said plunger, a locking roller carried by said link, a guide formed with a recess adapted to receive and hold said roller, a continuously rotating part, means for engaging said part to said link, means for disengaging said part and link and for causing said roller to roll into said recess, and means for causing said roller to roll out of said recess, all at the required times, as set forth. 5th. In impression mechanism of printing, embossing or printing and embossing presses, the combination of a weighted screw plunger, a link pivotally connected to said plunger, a locking roller carried by said link, a guide formed with a recess adapted to receive and hold said roller, and the entry to which is curved, the curve being struck from the centre of the pivot of said link, a continuously rotating part, means for engaging said part to said link, means for disengaging said part and link and for causing said roller to roll into said recess, and means for causing said roller to roll out of said recess all at the required times, as set forth. 6th. In impression mechanism of printing, embossing or printing and embossing presses, the combination of a weighted screw plunger, a link pivotally connected to said plunger, a locking roller carried by said link, a guide formed with a recess adapted to receive and hold said roller, a continuously rotating part, a drag roller carried by said link, a cam arm carried by said

part and having its forward face so formed as to make contact with the drag roller at the point at which a line, passing through the axes of said drag roller and of the pivot of the link, cuts the periphery of the drag roller, means for disengaging said cam arm and drag roller and for causing the locking roller to roll into and out of said locking recess at the required times, as set forth. 7th. In impression mechanism of printing, embossing, or printing and embossing presses, the combination of a weighted screw plunger, a link pivotally connected to said plunger, a locking roller carried by said link, a guide formed with a recess adapted to receive and hold said roller, and the entry to which is curved, the curve being struck from the centre of the pivot of said link, a continuously rotating part, a drag roller carried by said link, a cam arm carried by said part and having its forward face so formed as to make contact with the drag roller at the point at which a line, passing through the axes of said drag roller and of the pivot of the link, cuts the periphery of the drag roller, means for disengaging said cam arm and drag roller and for causing the locking roller to roll into and out of said locking recess at the required times, as set forth. 8th. In impression mechanism of printing, embossing, or printing and embossing presses, the combination of a weighted screw plunger, a continuously rotating part mounted thereon, a cam arm and a tripping cam carried by said part, a link pivotally connected to said plunger, a drag roller carried by said link and adapted to be engaged by said cam arm, a locking roller carried by said link, a guide formed with a recess adapted to receive and hold said locking roller, means for disengaging said drag roller from said cam arm and means for causing said locking roller to roll into and to roll out of said recess at the required times, as set forth. 9th. In impression mechanism of printing, embossing, or printing and embossing presses, the combination of a weighted screw plunger, a continuously rotating part mounted thereon, a cam arm and a tripping cam carried by said part, a link pivotally connected to said plunger, a drag roller carried by said link and adapted to be engaged by said cam arm, a locking roller carried by said link, a guide formed with a recess adapted to receive and hold said locking roller, a cam roller carried by said link and adapted to be operated by said tripping cam at the required time and a cam plate so arranged that said cam roller will be brought into contact therewith and the locking roller caused to become engaged with the guide at the required time, as set forth. 10th. In impression mechanism of printing, embossing, or printing and embossing presses, the combination of a fixed cylinder or casing, a fixed nut in line therewith, a screw plunger working in said nut and extending through said cylinder or casing, a continuously driven spur wheel free to rotate on said plunger, a link pivotally connected to said plunger, a drag roller, a locking roller and a cam roller mounted on said link, a guide with recess and a cam plate both carried by said cylinder or casing and a cam arm and tripping device both carried by said spur wheel, as set forth. 11th. In impression mechanism of printing, embossing, or printing and embossing presses, the combination of a fixed cylinder or casing, the fixed nut in line therewith, a screw plunger working in said nut and extending through said cylinder or casing, a continuously driven spur wheel free to rotate on said plunger, a link pivotally connected to said plunger, a drag roller, a locking roller and a cam roller mounted on said link, a guide with recess and a cam plate both carried by said cylinder or casing and a cam arm and tripping device both carried by said spur wheel, a pinion fixed to said plunger, a pair of sliding racks extending towards abutments, and springs arranged between said racks and abutments, the parts being adapted to operate so as to cause the raising, locking, releasing and descent of the plunger, as set forth. 12th. In impression mechanism of printing, embossing, or printing and embossing presses, the combination with a screw plunger of a fly wheel secured thereto, as set forth. 13th. In impression mechanism of printing, embossing, or printing and embossing presses, the combination with a screw plunger of a fly wheel secured thereto, a continuously rotating part loosely mounted on said plunger, means for connecting said plunger and part and means for preventing longitudinal movement of said rotating part along said plunger, as set forth. 14th. In impression mechanism of printing, embossing, or printing and embossing presses, the combination with a screw plunger of a fly wheel secured thereto, a continuously rotating part loosely mounted on said plunger, means for connecting said plunger and part, a sleeve fitting said plunger and extending between said fly wheel and part, as set forth. 15th. In impression mechanism of printing, embossing, or printing and embossing presses, the combination with a screw plunger, of a fly wheel secured thereto, a continuously rotating part loosely mounted on said plunger, means for connecting said plunger and part, a sleeve fitting said plunger and extending between said fly wheel and part, and a bearing in which said sleeve is journaled, as set forth. 16th. In impression mechanism of a printing, embossing, or printing and embossing presses, the combination with a screw plunger of a fly wheel secured thereto, and means whereby it is prevented from descending on the completion of its rebound until it has again been raised to the top of its stroke, as set forth. 17th. In impression mechanism of printing, embossing, or printing and embossing presses, the combination with a screw plunger of a fly wheel secured thereto, and means for raising, locking, and releasing said plunger, as set forth. 18th. In impression mechanism of a printing, embossing, or a printing and embossing press, the combination of a screw plunger, plunger raising, locking and releasing means, a cylinder or casing surrounding said means, and a cover to