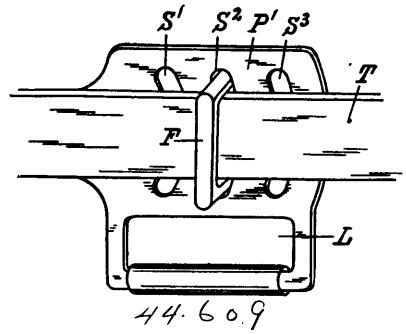
upon the plunger by the cams D, as and for the purpose specified. 6th. A rotary press comprising a frame, a rotary drum journalled therein, provided with flat portions at intervals in its periphery, a pair of moulds at each flat portions, with plungers reciprocating in said moulds, and a pair of feed hoppers for feeding material to the moulds, having slides carried upon one side adapted to conform to the flat portion, substantially as described. 7th. A rotary press comprising a frame. a rotary drum provided with a series of flat portions, a pair of moulds at each flat portion with plungers reciciprocating therein, feed hoppers having one side inclined, a slotted plate with bolts connecting the plate to the inclined sides, and weights carried by said plates for causing them to conform to the flat portions, substantially as described. 8th. The drum E, provided with moulds G, the plungers H, provided with a top plate *h*, the shaft I, provided with rollers J, and having tenoned ends moving in radial slots, and the cams D, arranged to operate upon each pair of rollers as they rotate, in combination with the feed hoppers V, secured to the channel iron U, the door 14, provided with rollers 24 and 25, and the channel iron U provided with curved ends U^1 and U^{11}, and the openings at each end of the channel iron, as and for the purpose specified. 9th. The drum E, provided with moulds G, the plungers H, provided with a top plate *h*, the shaft I, provided with rollers J, and having tenoned ends moving in radial slots, and the cams D, arranged to operate upon each pair of rollers as they rotate, in combination with the door 14, pivoted on the pins 15, which have annular grooves 22 cut in them, and pins 23 extending through the door and groove of the pin, one at each side, as and for the purpose specified. 10th. The drum E, provided with moulds G, the plungers H, provided with a top plate *h*, the shaft I, provided with rollers J, and having tenoned ends moving in radial slots, and the cams D, arranged to operate upon each pair of rollers as they rotate, in combination with the door 14, pivoted on the pins 15, which have annular grooves 22 cut in them, and pins 23 extending through the door and groove of the pin, one at each side, and the projections 20, formed on the drum and having slanting inner sides, as described and for the purpose specified. 11th. The drums E, provided with moulds G, the plungers H, provided with a top plate *h*, the shaft I, provided with rollers J, and having tenoned ends moving in radial slots, and the cams D, arranged to operate upon each pair of rollers as they rotate, in combination with the door provided with rollers 24 and 25 pivoted on the pin 15, having annular grooves and pins 23 in each groove, at each side of the pin, and the channel iron U, having an opening through which the roller 24 passes, and a curved end U^1, along which the roller 25 passes, and the straight edges u^1, as and for the purpose specified. 12th. The combination with the moulds formed in the drum and plungers deriving a radial reciprocating movement in the moulds from the cams D, of the door 14, provided with rollers 24 and 25, and adjustably held on their pivot pins, the projections 20, the channel groove U, provided with a curved end U^1, and the lugs 16, on the eccentrically journalled gear-wheels A, A^1, as and for the purpose specified. 13th. The combination with the moulds formed in the drum and plungers deriving a radial reciprocating movement in the moulds from the cams D, of the door 14, provided with rollers 24 and 25, and adjustably held on their pivot pins, the projections 20, the channel groove U, provided with a curved end U^1, and the eccentrically journalled gear-wheels A, A^1, having the lugs 16, and the bearing pieces 17, between which the ends of the door when closed extend, as and for the purpose specified. 14th. The combination with the moulds formed in the drum and plungers deriving a radial reciprocating movement in the moulds from the cams D, of the doors 14, provided with rollers 24 and 25, end rocking pieces 18, and adjustably held on their pivot pins, the projections 20, the channel groove U, provided with a curved end U^1, and the lugs 16, and the bearing pieces 17, beneath which the top upper ends of the door extends, as and for the purpose specified. 15th. The combination with the moulds formed in the drum and plungers deriving a radial reciprocating movement in the moulds from the cams D, of the doors 14, adjustably held on their pivot pins and having plates 21, as and for the purpose specified. 16th. In a rotary press, the combination with a series of pairs of moulds, of a single pivoted door for each pair of moulds operating to open and close both moulds of the pair, substantially as described. 17th. The doors 14, provided with plates, 21, adjustably held when closed on their pivot pins 15, above the moulds in the drum, in combination with the eccentric gear-wheels A, A^1, having inwardly extending bearing pieces 17, and lugs 16, on each wheel, between which the ends of the doors when closed extend, and the pins f^1, extending through the slots *f*, in the lugs F, secured to or forming part of the drum, as and for the purpose specified. 18th. The combination with the drum E, provided with moulds G, the plungers H, radially movable in the said moulds by the cam D, of the lifting dog M, crank N, and the rod *n*, provided with a hand wheel, as and for the purpose specified. 19th. The combination with the moulds G. formed in the drum E, of the collar 26, secured to the shaft B, and the ring 27 secured on the outer periphery of the collar, the said collar and ring having circular steam ducts 28 and 29 between them into which lead the outlet and inlet steam pipes 33 and 34, and from which lead the pipes 37 and 41, to and through the steam pipes 38 and 40, as and for the purpose specified. 20th. The combination with the moulds G, formed in the drum E, of the collar 26, secured to the shaft B, and the ring 27 secured on the outer periphery of the collar, the said collar and ring having circular steam ducts 28 and 29 between them into which lead the outlet and inlet steam pipes 33 and 34, and from which lead the pipes 37 and 41, to and through the steam pipes 38 and 40, and branch pipes 42, 43, which extend to the passageway 44, leading through the pivot pins of the doors into the branch passage ways 45, as and for the purpose specified. 21st. The combination with the moulds C, formed in the drum E, of the collar 26 secured to the shaft B, and the ring 27 secured on the outer periphery of the collar, the said collar and ring having circular steam ducts 28 and 29, between them into which lead the outlet and inlet steam pipes 33 and 34, and from which lead the pipes 37 and 41, through which the steam circulates in pipes to and into proximity to the sides of the moulds and the bottom plates of the doors which form the top of the moulds, and the face plates 30 provided with projections 31 designed to fit into the annular grooves formed in the end faces of the ring 27, and collar 26 at their point of junction, as and for the purpose specified. 22nd. In a rotary press, the drum E containing the moulds formed in two halves, the point of division being parallel with the face of the drum, and the two halves being secured together by the bolts E, which pass from the outside face into the open centre, and are connected together by the reverse threaded couplings e^1, as and for the purpose specified.

No. 44,609. Adjustable Collar Coupler.

(*Joint ajustable pour Collier.*)

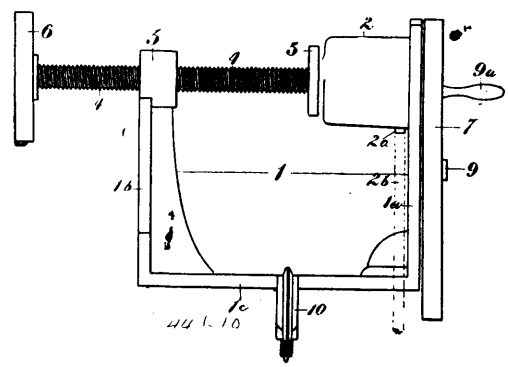


John Jones and John Sussex, London, Ontario, Canada, 3rd November, 1893; 6 years.

Claim.—1st. An adjustable coupler for separable horse collars, consisting of a plate P, provided with a flange F, in which an opening O, is formed, in combination with a plate P^1, provided with two or more slots S, and means for locking the flange F, in the slot S, substantially as set forth. 2nd, An adjustable coupler for separable horse collars, consisting of a plate P, provided with a flange F, in which an opening O, is formed, in combination with a plate P^1, provided with two or more slots S, and a loop L, and means for locking the flange F, in the slot S, substantially as set forth. 3rd. An adjustable coupler for separable horse collars, consisting of a plate P, provided with a flange F, in which an opening O, is formed, in combination with a plate P^1, provided with two or more slots S, and with a hinge K, and means for locking the flange F, in the slots S, substantially as set forth. 4th. An adjustable coupler for separable horse collars, consisting of plate P, provided with a flange F, in which an opening O, is formed, in combination with a plate P^1, provided with two or more slots S, a loop L, and with a hinge K, and means for locking the flange F, in the slot S, substantially as set forth.

No. 44,610. Machine for Slicing Fruit.

(*Tranche-fruits.*)



Samuel S. Arnold, Toronto, Ontario, Canada, 3rd November, 1893; 6 years.

Claim.—1st. In a machine for slicing fruit, the combination of a frame work, a feeder connected to the frame work, a series of re-