

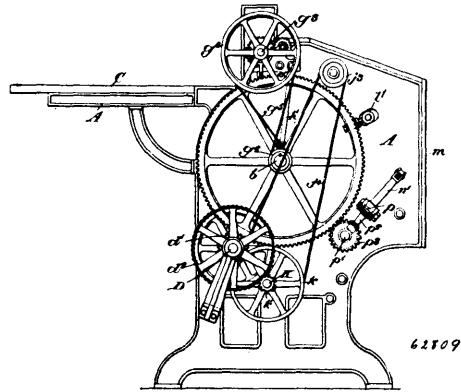
ling chamber, a pipe leading from the holder and to said receptacle, another pipe leading from said holder and to said chamber, a check valve in this pipe, another pipe leading from said receptacle to said chamber, and a check valve in the latter pipe, substantially as described. 4th. The combination, in an apparatus of the kind described, of the holder, the solution receptacle, the commingling chamber, a pipe leading from the holder to said receptacle and a valve in this pipe, another pipe leading from said holder to said chamber a valve and check in this pipe, a further pipe leading from said receptacle to said chamber, and a check valve in the latter pipe, substantially as described. 5th. In a device of the class described, the combination with the holder, of a commingling chamber, a pipe leading from said holder to the chamber having an interposed check valve, a receptacle, a pipe leading from the holder to the receptacle, a passage of restricted area extending between the chamber and said receptacle, and a check valve interposed in said passage, substantially as described. 6th. In a device of the class described, the combination with the holder, of a commingling chamber, a pipe leading from said holder to the chamber having an interposed check valve, a receptacle, a pipe of restricted internal area with an interposed check valve leading from said receptacle to said chamber, and a pipe leading from said holder to said receptacle having an internal area larger than the last mentioned pipe, substantially as described. 7th. The combination with the holder 1, and receptacle 6, the former being of greater containing capacity than the latter, a commingling chamber, pipes leading independently from the holder to said chamber and receptacle, a pipe of proportionately restricted internal diameter leading from the receptacle to said chamber, and independent check valves opposing the inlets to said chamber, substantially as described. 8th. The combination with the holder 1, having the upright siphon pipe 2, the chamber 10, a pipe with an interposed valve and check valve leading from the pipe 2, to the chamber 10, a receptacle 6, a pipe 25 having a valve 26, between the holder and receptacle, and the restricted siphon pipe 28, having an interposed check-valve extending to the chamber 10 and the receptacle 6, substantially as described. 9th. The combination with the upright holder 1, the upright siphon pipe 2 extending to the bottom and through the top of the holder, the commingling chamber 10, a pipe 20 extending between said chamber and pipe 2, and having an interposed valve 5 and a check-valve, a horizontally disposed receptacle 6, a pipe 25, leading from the top of the holder 1, to the top of the receptacle and having a valve 26, and a smaller pipe 28, having an interposed check-valve leading from the bottom of the receptacle 6 to the chamber 10, substantially as described. 10th. The combination with the holder 1, receptacle 6, and chamber 10, and the regulated passages between them, of the cooling box, a pipe coil therein, a dispensing faucet, and pipes 23, 34, leading from the coil to the chamber 10 and faucet respectively, substantially as described. 11th. The combination with the gasholder 1, the stand pipe 36, a series of receptacles as 6, a pipe with an interposed controlling valve leading from each of the receptacles to the gas space in the holder, the pipe 2 in the holder connecting the stand pipe 36, a separate commingling chamber for each receptacle, a pipe leading from each of the receptacles to its respective commingling chamber, a series of pipes leading from the stand pipe 36 to each of the commingling chambers, and valves interposed in the pipes leading to the said commingling chambers, substantially as described. 12th. The combination with the gasholder 1, the stand pipe 36, a series of separate receptacles as 6, a pipe with an interposed controlling valve leading from each of the receptacles to the gas space in the holder, the pipe 2 in the holder a separate commingling chamber for each receptacle, a pipe leading from each of the receptacles to its respective commingling chamber, a series of pipes leading from the stand pipe 36 to each of the commingling chambers, valves interposed in the pipes leading to the said commingling chambers, a cooling box and coils therein, a series of independent pipes 34 each leading from each of the commingling chambers to a separate coil in the cooling chamber, a series of dispensing faucets and separate pipes leading from each of the cooling coils, to said faucets, each of the faucets being in connection with each of the independent commingling chambers, substantially as described.

No. 62,809. Bronzing Machine. (*Machine à bronzer.*)

Rudolph Frank Emmerich and Frederick Vonderlehr, both of New York City, New York, U.S.A., 6th March, 1899; 6 years.
(Filed 5th November, 1898.)

Claim.—1st. In a bronzing machine, the combination with a carrier for the sheet to be bronzed, of a bronze distributing device comprising a hopper for containing the bronze, a roll for receiving the bronze from the hopper, a second roll for receiving the bronze from the face of the first-named roll, a swinging frame in which the second roll is mounted to rotate and means under the control of the movement of the carrier for simultaneously swinging the said second roll bodily away from its contact with the face of the carrier and stopping a rotary movement of the rolls, substantially as set forth. 2nd. In a bronzing machine, the combination with a sheet carrier, of a bronzing mechanism located in position to engage the sheet, the said bronzing mechanism comprising a plurality of bronzing pads and means for simultaneously rotating the pads and reciprocating them in a right line, substantially as set forth. 3rd. In a bronzing machine, the combination with the sheet carrier, of a bronzing mechanism located in position to engage the sheet, the said bronzing

mechanism comprising a carriage, a plurality of bronzing pads mounted in the carriage and means for simultaneously rotating the



pads and reciprocating the pad carrying carriage in a right line, substantially as set forth. 4th. In a bronzing machine, the combination with the sheet carrier, of a bronzing mechanism located in position to engage the sheet, the said bronzing mechanism comprising a carriage, elongated pads carried by the carriage, the said pads being arranged in pairs with their longitudinal axes at substantially right angles to each other, each pair being arranged so that the pads will overlap each other as they are rotated and means for rotating the pads, substantially as set forth. 5th. A pad for bronzing machines of greater width at its opposite ends than at its middle portion. 6th. In a bronzing machine, the combination with the sheet carrier, of a bronzing mechanism comprising a carriage, pads carried by the carriage, a shaft mounted to rotate in the carriage and geared to the said pads for rotating them, means for rotating the shaft and means engaging the shaft for causing it and thereby the carriage to reciprocate as the shaft is rotated, substantially as set forth. 7th. In a bronzing machine, the combination with the sheet carrier, of a superfluous bronze removing roll mounted in position to engage the face of the carrier, a hinged scraper having its free edge connected with the roll support and means for adjusting the roll toward and away from the face of the carrier, substantially as set forth. 8th. In a bronzing machine, the combination with the sheet carrier, of a superfluous bronze removing roll mounted in position to engage the face of the carrier, a sieve for receiving the bronze from the said roll and means under the control of the movement of the carrier for reciprocating the sieve, substantially as set forth. 9th. In a bronzing machine, the combination with a sheet carrier, of a superfluous bronze removing roll mounted in position to engage the face of the carrier, a sieve for receiving the bronze from the said roll, means for reciprocating the sieve, a hopper for receiving the sifted bronze, a suitable receptacle and a conveyer for carrying the sifted bronze from the said hopper to the said receptacle, substantially as set forth. 10th. In a bronzing machine, the combination with a sheet carrier and drawing rolls, of means for positively removing the sheet from the carrier and directing it into engagement with the rolls, comprising a pair of cross bars, a stripper adjustably mounted on one of the said bars, with its edge in engagement with the face of the carrier, the said stripper being provided with a downwardly extended lip, and a guide mounted on the other cross-bar, the said guide having an upper arm arranged to overlap the said lip and a lower arm extending into close proximity to the meeting faces of the drawing rolls, substantially as set forth.

No. 62,810. Bronzing Machine. (*Machine à bronzer.*)

Rudolph Frank Emmerich and Frederick Vonderlehr, both of New York City, New York, U.S.A., 6th March, 1899; 6 years.
(Filed 5th November, 1898.)

Claim.—1st. In a bronzing machine, a rotary sheet carrying cylinder, a bronze distributing roller and mechanism connecting the cylinder and the roller comprising means for adjusting the speed of the roller and means for adjusting the amount of rotation of the roller to adapt it for use in connection with different lengths of sheets, substantially as set forth. 2nd. In a bronzing machine, a rotary sheet carrying cylinder, a bronze distributing roller and mechanism under the control of the cylinder for determining the rotary movement of the bronze distributing roller comprising a cam carried by the cylinder shaft, a rocking lever carried by the roller shaft and an intermediate lever having one arm engaged with the cam and the other arm adjustably engaged with the roll lever, substantially as set forth. 3rd. In a bronzing machine, a rotary paper carrying cylinder, a bronze distributing roller and mechanism for controlling the movement of the said roller comprising a double the cam carried by the cylinder shaft, and a connection between the said cam and the roller, substantially as set forth. 4th. A double cam comprising a stationary cam member and a rotary cam member arranged to co-act therewith, the one being provided with a gradually outwardly extended truck and the other with a rapidly