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Note.—Throughout this Gazette the names in Italics within parentheses are those of Communicators of Inventions.

### Complete Specifications.

Patent Office, Perth,  
25th November, 1902.

NOTICE is hereby given that the undermentioned Applications for the Grant of Letters Patent, and the complete Specifications annexed thereto, have been accepted, and are now open to public inspection at this Office.

Any person or persons intending to oppose such applications must leave particulars, in writing, in duplicate (on Form D), of his or their objections thereto, within two calendar months from the date of this Gazette. A fee of Ten shillings (10s.) is payable with such notice.

Application No. 4088.—JOB SELWOOD, of Castle Street, Parkside, in the State of South Australia, Commonwealth of Australia, Evangelist, "*Improved method of and Apparatus for Purifying and Heating Feed Water to prevent the incrustation of steam boilers and to economize fuel.*"—Dated 20th October, 1902.

#### Claims:—

1. The herein described method of purifying and heating feed water consisting in causing the intimate commingling within a suitable chamber and adjacent to one side thereof of a spray of cold water and a current of steam whereby the mineral and other impurities of the water are thrown out in the form of scum the purified water being drawn off from adjacent to the spray and the scum being caused by the boiling of the water to pass to a scum space on the other side of the chamber from which it is removed as necessary, substantially as described.
2. The herein described apparatus consisting in a steam boiler, a cold water supply, a purifying chamber, and an impregnating tank with suitable pipe connections and fittings by means of which cold water is fed from the said supply into the purifying chamber in a conical spray and is met by an oppositely flowing current of steam the resulting hot water being drawn off from adjacent to the spray to the impregnating tank where it is impregnated with an incrustation preventing composition and cooled to a suitable temperature for feeding into the boiler the scum containing the impurities of the purifying chamber being caused to pass over to a scum-collector which has a separate outlet for its removal.
3. In process and apparatus for treating feed water such as hereinbefore described the employment in an intermediate impregnating tank of wattle bark as and for the purpose set forth.
4. In a purifying chamber, a cold water supply pipe and a steam supply pipe arranged with their delivery openings opposed, a vertical water break, a delivery pipe for the purified water, a scum pipe and tap communicating with the space behind the water break and an escape pipe and baffle plate all substantially as described and for the purpose set forth.
5. The improved method of purifying and heating feed water consisting in causing the intimate commingling within a suitable chamber and adjacent to one side thereof of a spray of cold water and a current of steam whereby the mineral and other impurities of the water are thrown out in a scum, the purified water passing from the chamber at a point adjacent to the spray and previous to being fed to the boiler passing through an impregnating tank wherein is placed a composition containing wattle bark substantially as described.

Specification, 9s. Drawings on application.

Application No. 4090.—ALFRED GODFREY, of 14 Havergal Villas, Green Lanes, Wood Green, London, N., England, Engineer, "*An improved Machine for Wrapping and Packing Cigarettes and like goods.*"—Dated 21st October, 1901.

#### Claims:—

1. A combined machine for packing cigarettes and like goods in an inner tray or slide, and an outer case or shell of cardboard, paper or like material, consisting of automatic devices all operated from a single first motion shaft, so arranged as to accurately cut and feed the material for the shells from a reel or to receive the same in rectangular cut blanks, to press and form the same into an open rectangular shell, to glue and close the same, and to deliver them in succession to a successive series of packed and closed inner slides or trays, to pack the tray or shell with a definite quantity of cigarettes or the like, naked or wrapped, in one or two layers, to feed the same, when packed and closed, into the firmly glued rectangular shell and to deliver the completely packed tray and case with the cigarettes closely packed therein, ready for market, substantially as herein described and illustrated.
2. In a machine for packing cigarettes and the like as claimed in Claim 1, a feeding apparatus for the material for the shells from a continuous roll, having a device for clamping the sheet before and whilst shearing and unwinding from the reel; a device by which a feed finger first closes down and engages with a perforation in the material, and then draws it a required distance to the shears; and means for adjustment of the operating levers of the feed motion to alter the length and position of the feed, substantially as described and illustrated in figures 5 and 6.
3. In a machine for packing cigarettes and the like as claimed in Claim 1, a reciprocating die for folding up a blank piece of paper or card into a containing case or shell, characterised by the table, under the die, being formed of two spring shutters, one of which is so spring-pressed as to be drawn away from the die when in lowest position, and is provided with a trigger action from the die so as to be brought back again to the horizontal position, the matrix below the die having on two faces, detent springs to prevent the folded card from rising in the die, substantially as described and illustrated in figures 7 and 8.
4. In a machine for packing cigarettes and the like as claimed in Claim 1, the arrangement of the reciprocating bed and the sides of the channel with face-springs let in at definite intervals for causing the shell to advance with the reciprocating bed in one direction, and to be prevented from returning with the said bed, in combination with spring-pressed hinged fingers on each side of the channel, to bend over both flaps of the card case or shell, ready for gluing, substantially as described and illustrated in figures 7a and 8a.
5. In a machine for packing cigarettes and the like as claimed in Claim 1 the arrangement of a horizontal reciprocating rod or rods for pressing down the top folds of the shell, with a vertical plate depending therefrom acting as an anvil to resist the pressure of the gluing roller upon the inside edge of the open flap, and serving thereafter to press down the glued flap upon the other one, substantially as described and illustrated in figures 1 and 2.
6. In a machine for packing cigarettes and like goods, as claimed in Claim 1, a reciprocating glue box moving to and away from the shells as they pass before it, with revolving roller taking up the glue and having two adjustable knives adapted to such roller, one to adjust the required film of glue allowed to issue on the roller, and the other to scrape and remove the hardened film of glue from the roller before taking up a fresh charge, substantially as described and illustrated in figures 4 and 9a.
7. In a machine for packing cigarettes and like goods as claimed in Claim 1, a heating block, adapted to be heated by small gas jet or other means and fitted to a vertically descending bar so as to press upon the glued joint of the shell or case and dry it, substantially as described and illustrated in figures 1 and 2.
8. In a machine for packing cigarettes and like goods, as claimed in Claim 1, the arrangement upon intermittently moving and locked pressing rolls of studs slightly projecting from their periphery whereby the formed shell or case is stripped from an internal mandril or "former," in combination with levers depressing the top of the shell after being removed from the mandril or "former" so that the mandril upon its return stroke may push the shell before it to meet the internal packed slide, substantially as described and illustrated in figures 1, 2, and 3.
9. In a machine for packing cigarettes and like goods as claimed in Claim 1, a reciprocating plate for receiving cigarettes and like goods from sloping chute and for conveying the same under a reciprocating packer head and leaving the same suspended under the packer head until released into a tray or slide, situated under said packer head, substantially as described and illustrated in figures 11 and 18.



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