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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,
21st August, 1903.*

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. 4125.—THOMAS HARVEY, of Johnston Street, Castlemaine, in the State of Victoria and Commonwealth of Australia, Mechanical Engineer, "*Improvements in Hose Fittings or Couplings*."—Dated 18th November, 1902.

Claims:—

1. An improved hose fitting or coupling consisting of an externally threaded double cone ferrule or thimble inserted into the ends of the sections to be joined in combination with two internally and externally threaded collars placed on the outside of said sections and operated on by an internally threaded sleeve substantially as herein described and specified and as illustrated in Figure 2.

2. An improved hose fitting or coupling consisting of an externally threaded tapering ferrule inserted in the end of a hose section and made integral with a screwed or other tap fitting and having its other end externally threaded in combination with an internally and externally threaded collar placed on the outside of said section and operated on by an internally threaded sleeve substantially as herein described and specified and as illustrated in Figure 3.

Specification, 2s. 6d. Drawings on application.

Application No. 4139.—JAMES ALSTON, of Maffra Street, South Melbourne, in the State of Victoria, Commonwealth of Australia, Windmill Manufacturer, "*An Improved Water Trough*."—Dated 25th November, 1902.

Claim:—

An improved water trough consisting of semi-circular sheets of metal suspended above the ground said sheets lapping at each end, longitudinal side reinforcing angle pieces extending along the top of each of the edges of said plates, a tension bolt passing underneath said lapping joints, and supporting said plates a compression piece inside the trough and over each joint, in combination with angle sectioned cross yokes having integral depending legs which legs at their bottoms are spread in the form of feet or have beneath the said legs bearers, said legs supporting each cross yoke which yoke supports the aforesaid tension bolt and plates all as and for the purposes hereinbefore described and as illustrated in the drawings.

Specification, 5s. Drawings on application.

Application No. 4141.—FRANK FOSTER COULSELL, LANE BRADFORD COULSELL, ALFRED CHARLES COULSELL, and HARRY WILLIAM COULSELL, all of 29 Courtney Street, North Melbourne, in the State of Victoria, Engineers and Boilermakers, "*Improvements in Vertical Multi-tubular Water Column Boilers*."—Dated 25th November, 1902.

Claims:—

1. In a boiler of the kind set forth, a water chamber, having its foot forming the fire-box sides its body fitted with upwardly extending tubes, a neck or necks forming water columns rising from the said body, and a head or steam chamber above the said neck substantially as described.

2. In a boiler of the kind set forth the arrangement of the water and steam spaces respectively relatively to the passage ways for the products of combustion, as described.

3. In a boiler of the class described a head of less diameter than the body, a neck or necks as a and a smoke box as i all substantially as set forth.

4. In a boiler of the kind set forth the parts a to g as hereinbefore described in combination.

Specification, 2s. 6d. Drawings on application.

Application No. 4541.—PHILIP DIEHL AND MARTIN HEMLEB, of Elizabethport, New Jersey, United States of America, Inventors, "*Rotary take-ups for Sewing Machines*."—Dated 7th August, 1903.

Claims:—

1. In a sewing machine, the combination with stitch-forming devices, of a tangentially disposed rotary take-up arm, on which the needle-thread slides in and out for the thread-slackening and take-up operations, and a stationary guard outside of said arm.

2. In a sewing machine, the combination with a rotary disk or hub, or a take-up arm projecting outward from the same, and on which arm the needle-thread slides in and out for the thread-slackening and the take-up operations, and a stationary guard outside of said arm and overlapping the outer end thereof, and thus preventing the thread from escaping from said arm, as also housing or guarding the outer end of said arm.

3. In a sewing machine, the combination with stitch-forming devices, of a rotary take-up arm on which the needle-thread slides inward and outward for the thread-slackening and the take-up or stitch-tightening operations, and which arm is provided between its outer and inner ends, with a thread-detaining shoulder which momentarily controls the thread-loops during the thread-slackening operation.

4. In a sewing machine, the combination with stitch-forming devices, of a rotary take-up arm on which the needle-thread slides inward and outward for the thread-slackening and the take-up or stitch-tightening operations, and which arm is provided between its ends with a thread-controlling shoulder, and a circular guard surrounding said arm and overlapping the outer end thereof.

5. In a sewing machine, the combination with stitch-forming devices of a tangentially disposed rotary take-up arm on which the needle-thread moves in and out for the thread-slackening and the take-up or stitch-tightening operations, and a stationary guard-ring, attached to the face-plate of the machine, encircling said rotary take-up and overlapping the outer end of said take-up arm.

6. In a sewing machine, the combination with stitch-forming devices, of a rotary take-up comprising a hub or disk and a take-up arm extending outward therefrom, and a stationary hollow take-up ring or guard having two inwardly extending flanges both overlapping the outer end of said take-up arm and between which flanges the said outer end of said arm travels, in rotating.

7. In a sewing machine, the combination with a rotary take-up, of a stationary unthreading device arranged and operating out of the normal path of the thread wholly on the cast-off or thread-slackening side of the path of movement of the said rotary take-up, and which device is so located that the thread has no contact therewith except when broken, the said unthreading device being adapted to catch, without severing, the loose end of an accidentally broken thread, as said loose end is carried around, and thus withdraw such loose end of thread from the said rotary take-up.

8. In a sewing machine, the combination with a rotary take-up, of a stationary unthreading device formed on the face-plate of the machine and arranged and operating out of the normal path of the thread and wholly on the cast-off or thread-slackening side of the path of movement of the said rotary take-up, and which device is so located that the thread has no contact therewith except when broken, the said unthreading device being adapted to catch, without severing, the loose



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