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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,
18th December, 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. 4720.—RAYMOND CONCRETE PILE COMPANY, of 135 Adams Street, Chicago, County of Cook, State of Illinois, United States of America, Manufacturers (assignee of Alfred Augustus Raymond), "*Improvements and apparatus for forming concrete piles.*"
—Dated 1st December, 1903.

Claims:—

1. The method of forming piles consisting in driving a temporary shell and finally filling such shell with a suitable filling, such as cement, concrete and the like, substantially as described.
2. The method of forming a pile consisting in sinking a temporary shell by means of a core arranged therein, then removing the core, and finally filling such shell with a suitable filling, such as cement, concrete and the like, substantially as described.
3. The method of forming a concrete pile consisting in sinking a tapering shell by means of a correspondingly tapering core arranged therein, then withdrawing the core, and finally filling such shell with concrete, substantially as described.
4. A core for driving a temporary shell for piles comprising expandible sections adapted to be expanded within the shell while being driven and to be contracted when it is desired to remove the core, substantially as described.
5. A core for driving a temporary shell for piles comprising expandible sections and a core proper arranged between them for expanding them against the shell and permitting them to contract when the core is removed, substantially as described.
6. A core for driving a shell for piles comprising tapering expandible sections and a core proper arranged between them, substantially as described.

Specification, 4s. 6d. Drawings on application.

Application No. 4721.—RAYMOND CONCRETE PILE COMPANY, of 135 Adams Street, Chicago, County of Cook, State of Illinois, United States of America, Manufacturers (Assignee of Alfred Augustus Raymond), "*Improvements in piles and method of forming same.*"
Dated 1st December, 1903.

Claims:—

1. The method of forming a pile consisting in sinking a shell and filling such shell with a suitable filler during the sinking operation.

2. The method of forming a pile consisting in sinking a series of shell sections, section by section, and filling the same with a suitable filler.

3. The method of forming a pile consisting in sinking a series of shell sections by means of fluid jetting, and filling the same with a suitable filler.

4. The method of forming a pile consisting in arranging around a tip to be sunk a series of shell sections which engage each other to form a shell or tube, sinking said tip and shells, and filling the shell with a suitable filler.

5. The method of forming a pile consisting in arranging around a tip to be sunk a series of sections of a tapering shell adapted when extended to engage each other to form a continuous shell, sinking said tip and shells by fluid jetting, and filling said shell with a suitable filler during the sinking operation.

6. A pile consisting of a shell or covering composed of a plurality of nested sections adapted for longitudinal distribution and interlocking engagement when so distributed so as to form a continuous shell, and a suitable filler within such shell.

7. A pile consisting of a shell or covering composed of a plurality of nested sections arranged for interlocking engagement to form a continuous shell, a tip connected to the innermost section, and a suitable filler within the shell.

8. A pile consisting of a shell or covering, a suitable filler therein, a tip arranged at the lower end of the shell, and a pipe connected to such tip and extending longitudinally of the filler.

9. A pile consisting of a shell or covering composed of a plurality of nested sections arranged for interlocking engagement to form a continuous shell, a tip connected to the innermost section, a suitable filler within the shell, and a pipe connected to the tip and extending through the filler.

Specification, 7s. Drawings on application.

Application No. 4732.—RICHARD ERNEST PENNINGTON, of 159 Station Street, Carlton, near Melbourne, Australia, Engineer, "*An improved nut-locking spring washer specially adapted for securing nuts on fish bolts.*"
—Dated 8th December, 1903.

Claims:—

1. The herein described nut-locking spring-washer consisting essentially of a slightly arched steel plate with a hole through it for the bolt and a tongue (as G) on one side normally adapted to spring forward so as to project slightly, the whole being constructed, arranged, and operating substantially as and for the purposes specified and as illustrated in the drawings.

2. The modified nut-locking spring-washer formed of a slightly arched steel plate with a hole through it for the passage of the bolt and a tongue on one side adapted to be wedged or held in its forward position to engage the flats of the nut, substantially as and for the purposes specified and as illustrated in the drawings.

Specification, 6s. Drawings on application.

Application No. 4735.—WILLIAM JOSEPH ARMBRUSTER, Chemist, and JOHN MORTON, Gentleman, both of the City of St. Louis, Missouri, U.S.A., "*Improvements in Chlorination Barrels.*"—Dated 10th December, 1903.

Claims:—

1. A chlorination barrel having a pulp chamber, and a chlorine-generating compartment carried thereby and rotatable, and in unobstructed communication therewith, through one of the ends of the barrel, and freely discharging the chlorine thereinto above the surface of the pulp, substantially as set forth.

2. A chlorination barrel having a pulp chamber, and a chlorine-generating compartment carried thereby and located contiguous thereto



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