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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,
12th September, 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 any of such applications must leave particulars, in writing, in duplicate (on Form D), of his or their objections thereto, within two calendar months from the first appearance of this advertisement in the Western Australian Government Gazette. A fee of Ten Shillings (10s.) is payable with such notice.

Application No. 3969.—ARTHUR DUNBAR, of Normanby Road, South Melbourne, in the State of Victoria, Consulting Engineer, "*Improvements in feed water Heaters and Distributors.*"—Dated 29th July, 1902.

Claims:—

1. In feed water heaters and distributors, a nest of tubes arranged relatively to a boiler substantially as and for the purposes set forth.
2. In feed water heaters and distributors for boilers, a nest of tubes in combination with a matching chamber and means for supporting said tubes substantially as and for the purposes set forth.

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

Application No. 4013.—ANNIE SOPHIA BAND, of 1 Birtley Place, Elizabeth Bay Road, Elizabeth Bay, near Sydney, in the State of New South Wales, married woman, "*An improved Clip for securing crossed wires in Fences, Gates, and Hurdles.*"—Dated 27th August, 1902.

Claims:—

1. A clip for the purpose set forth consisting of a folded rectangular piece of metal with key-hole slots formed in same, the projecting wings at outer part of which slots may be set up so as to bite the clip on to the wires, substantially as described.
2. A clip for the purpose set forth, consisting of a folded slip of metal slotted through to receive the cross wires and having depending wings adapted to be set up to close the clip on to the wires, substantially as described.
3. In a folded clip for the purpose set forth, key-hole or R-shaped slots set back to back so as to leave wings at the corners, which wings may be set up so as to close the clip on the wires, substantially as described.
4. In a clip substantially as described, the feature of reduced inner corners to allow of the insertion of an opening nippers, substantially as described.

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

Application No. 4016.—GEORGE SIMPSON, of No. 54 Gardner Street, Richmond, in the State of Victoria, and Commonwealth of Australia, Carpenter, "*An improved window-sash fastener.*"—Dated 27th August, 1902.

Claims:—

1. An improved window-sash fastener consisting of a U-shaped pin or staple, the legs of which fit into a series of holes in the upper sash stile, and the window frame respectively substantially as and for the purposes set forth and as illustrated.

2. An improved window-sash fastener consisting of a U-shaped pin or staple, one of the legs of which has a ratchet tooth or ratchet teeth thereon adapted to engage the edge of a hole in a retaining and wearing plate substantially as and for the purposes set forth and as illustrated.

3. An improved window-sash fastener consisting of a U-shaped pin or staple, the bend of which is fitted with a filling piece, and the legs of which engage holes in the sash frame and window frame respectively, substantially as and for the purposes set forth and as illustrated.

Specifications, 2s. Drawings on application.

Application No. 4017.—THOMAS CHURCHMAN DARBY, THOMAS ALBERT DARBY, and SIDNEY CHARLES DARBY, all of the Darby Digger Works, Wickford Junction, in the County of Essex, England, Engineers, "*Improvements in Implements for digging or cultivating land and breaking up roads and the like.*"—Dated 27th August, 1902.

Claims:—

1. In an implement for digging or cultivating land and breaking up roads and the like, the combination of a crank or other shaft on the engine, a chain wheel fixed on such shaft and giving motion by means of a chain to a chain wheel fixed on a cross shaft carried by the frame of the digging implement, and means for communicating motion from said cross shaft to the vertical spindles carrying the digging tools, substantially as set forth.

2. In an implement for digging or cultivating land and breaking up roads and the like, the combination of a crank or other shaft on the engine, a chain wheel mounted on such shaft and giving motion by means of a chain to a chain wheel mounted on a cross shaft carried by the frame of the digging implement, bevel wheels mounted on the ends of the said cross shaft gearing with bevel wheels mounted on the upper ends of two of the vertical spindles upon the lower ends of which are mounted the digging tools, and means for giving motion from the two said vertical spindles to the other vertical spindles, substantially as set forth.

3. In an implement for digging or cultivating land and breaking up roads and the like having a cross shaft receiving motion from the engine by means of a chain and chain wheels, the combination of bevel wheels on each end of said cross shaft giving motion to two vertical spindles carrying digging tools, and chains and chain wheels giving motion to the other vertical spindles carrying digging tools, substantially as set forth.

4. In an implement for digging or cultivating land and breaking up roads and the like receiving motion from the engine by means of a chain and chain wheels and carried by means of an automatically tilting wheel and chains attached to and passing round a cross shaft at the rear of the machine, the combination of a worm wheel on said cross shaft, a worm on the top of one of the vertical spindles, and a clutch by means of which the worm may be made fast with the machine when it is desired to raise the digging tools, substantially as herein set forth.

5. In an implement for digging or cultivating land and breaking up roads and the like having a cross shaft receiving motion from the engine by means of a chain and chain wheels, the combination of a pair of racks carried by the engine, links pivoted to the digging portion of the implement, plain wheels carried by the links running in contact with the back of the racks, toothed wheels carried by the links engaging the racks and connected together by a shaft, and means for taking up or preventing any slack in the chain, substantially as set forth.

6. An implement for digging or cultivating land as set forth having digging tools each consisting of a twisted blade the upper part being approximately vertical and the lower part arranged to enter the soil at an angle, substantially as herein shown and described.

7. An implement for breaking up roads and the like as set forth having chisel pointed cutters carried by the lower ends of the vertical spindles, substantially as herein shown and described.

Specifications, 10s. Drawings on application.



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Applications for the Grant of Letters Patent