No. 10,415. Remedy for the Relief and Cure of Ear-ache. (Remede pour l'adoucissement et la quérison du mal d'oreille.)

Joseph F. Avery, Halifax, N. S., 2nd September, 1879, for 5 years.

Claim.—A composition of marigold, arnica, glycerine, sweet-oil, lauda-num, chloroform, friars balsam and carbolic acid.

No. 10,416. Improvements on Telephones.

(Perfectionnements aux téléphones.)

George M. Phelps, Brooklyn, N. Y., U. S., 2nd September, 1879, for 15

Claim.—1st. The permanent magnet of a horse-shoe shape, with one pole bent inwardly for the attachment of the electro-magnet, casing and diaphragm, and with the other pole perforated for the passage of the conducting wires; 2nd. The combination of the horse-shoe shaped permanent magnet with its inwardly bent pole and the electro magnet, case, diaphragm and mouth piece mounted on said pole.

No. 10,417. Improvements on Pans. (Perfectionnements aux poeles.)

Edward A. C. Pew. Welland, Ont., (Assignee of William J. Abrich, Elkton, Maryland, U. S.), 3rd September, 1879, for 5 years.

Claim.—In combination with the pan A, the cover C having a flanged rim D, a valved opening F and condensing diaphragm E.

No. 10,418. Improvements on Dental Engines. (Perfectionnements aux engins dentaires.)

Eli T. Starr, Philadelphia, Pa., U. S., 3rd September, 1879, for 15 years.

Eli T. Starr, Philadelphia, Pa., U. S., 3rd September. 1879, for 15 years.

Claim.—lat. In the combination of the dental engine base, the engine arm and mechanism for inclining said base and arm: 2nd. The combination of the dental engine base, provided with a device or mechanism to tilt or incline it, with the engine arm capable of rocking on said base; 3rd. The combination of the base, its inclining or tilting mechanism, the engine arm and the treadle mounted on the base, whereby said base, arm and treadle may be tilted or inclined together; 4th. The combination of the base, its arm, a slitting device to incline said base and arm, and mechanism to lock the tilting device in position; 5th. The combination of the dental engine base, its arm and devices to incline the base in different directions, or tilt the said arm to either side of the perpendicular; 6th. The combination of the base, the engine arm capable of rocking on said base and mechanism to lock said arm in different positions relatively to the base; 7th. The combination of the base, the engine arm capable of rocking thereon having its pivot or hinge coincident with the axis of the fly or driving-wheel, and mechanism for locking the same in the desired position or angle relatively to the base; 8th. The combination of the base, its flxed standard, the engine arm rocking thereon, and mechanism to chinge the normal position of said arm carried by the base or standard; 9th. The combination of the base, the engine arm rocking thereon and the device to tilt the base at an angle to the plane of the independent rocking movement of the said arm; 10th. The combination of the base, its flixing mechanism, the driving pulley and the engine arm, the driven pulley; its spindle, the fixible shaft and the hand piece; 13th. The combination of the base, its ritting mechanism, the driving pulley; the treadle, the rocking engine-arm, the mechanism for changing the normal position of said arm and the hand piece; 13th. The combination of the base, its ritting arm, the plate a rock, and the counterbalancing spring connected at one end with said plate and at the other with the engine arm; 15th. The combination of the base, the rocking arm, the flexible shaft connected with the rocking arm, the adjustable plate for varying the normal position of said arm and the spring connected with said plate at one end and acting upon the rocking arm at the other, to maintain it in its normal position, while permitting it to be deflected or rocked upon its pivots; 16th. The combination of the base, the forked engine arm pivoted thereon and the ears or lugs upon said arm to limit its range of movement; 17th. The combination of the base, the engine arm, mechanism for varying the normal position of said arm, lugs or devices for limiting the range of rocking movement of the arm and the counterbalancing spring soting upon the arm; 18th. The combination of the pivoted plate, to change the normal position of said arm, lugs or devices to secure said plate to the engine base or its standard; 18th. The combination of the base, the engine arm rocking thereon, the spring connecting the base and arm and the telescoping cover or envelope for said spring; 20th. The combination of the plate, for changing the normal position of the engine arm, with the counterbalancing spring and the jointed or yielding cover of said spring; 21st. The combination of the base, the engine arm rocking thereon, the pivoted plate for changing the position of said arm, the counterbalancing spring connecting said plate and arm and the device to vary the tension of said spring; 22nd. The combination of the lateral arm or engine head, the pivot crosswise of said arm upon which said arm rocks and the driven pulley overhanging said pivot at the side thereof opposite that at which said lateral arm extends, and the driven pulley overhanging said pivot at the side thereof opposite that at which said lateral arm with which it is connected by the rocking pivot tof said arm, the cocking pivot of said arm, the driven pulley overhanging said pivot at said lateral arm; 27th. I he combinated of a technique, the rocking pivot thereof, the pivotal shank of said arm, the shank spring, the engine arm, the overbanging driven pulley carried by said lateral arm and the flexible power conveyor driven by said pulley; 28th. The combination of the lateral arm,

the rocking pivot thereof, the pivotal shank of said lateral arm, the shank the rocking pivot thereof, the pivotal shank of said lateral arm, the shank spring, the engine arm, the overhanging driven pulley, the flexible power conveyor and the sheath therefor: 29th. The combination of the lateral arm, the rocking pivot thereof, the pivotal shank of said lateral arm, the shank spring, the engine arm, the overhanging driven pulley, the flexible power conveyor and the hand piece; 30th. The combination of the lateral arm, the rocking pivot thereof and the adjusting device to lock the arm, when desired, in the position to which it is rocked; 31st. The combination of the lateral arm, the rocking pivot thereof, the adjusting device to lock the arm, when desired, in the position to which it is rocked and the driven pulley overhanging said pivot at the side thereof, opposite that at which the lateral arm extends; 32nd. The combination of the lateral arm, the rocking pivot thereof, the adjusting device to lock the arm when desired in the position to which it is rocked, and the driven pulley over hanging said pivot at the side thereof. it is rocked, the driven pulley over hanging said pivot at the side thereof opposite that at which the lateral arm extends, the flexible power conveyor driven by said pulley and the hand piece.

No. 10,419. Butter Working Machine. (Machine à app êter le beurre.)

James B. Burbank and Joseph W. Atkins, Danville, Que., 3rd September, 1879, for 5 years.

Claim.—The combination of the hollow bed or dish A with the tapering pieces B and the rims C C with the hole D, also the hinged legs E E with the plus F F and the revolving lever roller H with the revolving handle jand pivot I.

No. 10,420. Improvements in Fire Extinguishers. (Perfectionnements aux extincteurs d'incendie.)

Henry S. Parmelee, New Haven, Conn., U. S., 3rd September, 1879, for 5 years.

(laim.—lst. In combination with a system of main and branch pipes, the outlets of which are provided with distributors arranged to spread the water, a seal arranged to be released by the fusion of metal or solder; 2nd. The outlets of which are provided with distributors arranged to spread the water, a seal arranged to be released by the fusion of metal or solder; 2nd. The combination, with a system of pipes provided with distributors and closed with seals or caps depending on the fusion of metal for their release, of the tank F or any other automatic supply of water, gas or fluid; 3rd. The combination, with a system of pipes provided with distributors and closed with plugs, seals or caps depending on the fusion of metal for their release, of an alarm operated by the flow of the water acting on a floar; 4th. The combination, with a distributor, of a cap arranged to fit over and protect the distributor; of a cap secured to the distributor by a low fusible material; 6th. The combination, with a fluid supply, mains and branches provided with distributors, of a metal cap arranged to fit over the distributors and secured thereto in any manner, so that the same will be released by the action of heat on a fuelbe material; 7th. The combination of an automatic fire extinguisher with the mains and branches of a distributor within which a seal is secured depending on the fusion of netal for its release; 8th. A distributor, provided with an extended base, in combination with a cap secured to said base by low fusible solder; 9th. A revolving distributor, provided with an extended base, in combination with discharge openings arranged to revolve the same by the discharge of a fluid or gas; 10th. The combination, with an alarm, of an elongated valve extending through the valve expending an arranged to be moved a distance before the valve is opened, so as to operate an alarm; 11th. The combination, in a valve with the valve copening and arranged to be moved a distance before the valve is opened, so as to operate an alarm; 11th. The combination, in a valve with the valve copening and arranged to be moved a distance before the valve is opened. valve is opened, so as to operate an alarm; lith. The combination in a valve, with the valve seat and an extension nearly fitting the valve opening. of a groove or by way

No. 10,421. Means of Cleansing Bolting (Mode de nettoyage des tamis de Screens. bluteaux.)

William W. Huntley, Abel P. Holcomb and August Heine, Silver Creek, N. Y., U. S., 3rd September, 1879, for 5 years.

Claim.—1st. Loose balls arranged on the underside of the screen and supported by an open or perforated surface; 2nd. In combination with a vibrating bolting screen, provided with pockets or compartments on its underside, loose balls d arranged in said compartments and a rough perforated surface e by which said balls are supported.

No. 10,422. Knitting Machine. (Machine à tricoter.) Hiram P. Ballon, Needham, Mass., U.S., 3rd September, 1879, for 5 years.

Hiram P. Ballon, Needham, Mass.. U.S., 3rd September, 1879, for 5 years. Claim.—1st. In combination with the spindle G and the adjustable part m_1 of the needle cam K, the helically grooved rotary head L and the bar of rod m_1 arranged with and applied to such spindle and movable part; 2nd. In combination with the vertical needle cam K, the mechanism for turning it around laterally and stopping it, such mechanism being the arm M and the stops N O; 3rd. In combination with mechanism for turning the needle cam laterally and stopping it at the extreme of its arc of motion, the vertical needles' thread guide applied so as to be movable into σ out of action with such needles; 4th. In combination with the two sets of needles, mechanism for effecting the vertical adjustment of the vertical set relatively to the horizontal set, such mechanism being the screw m_i its eccentric stud t and the grooves applied to the arch and the spindle; 5th. In combination with the two sets of needles, mechanism for forcing upwards certain of the horizontal needles, while the next adjacent vertical ones may be descending, such mechanism being the cam b applied to the cam ring D; 6th. The cam groove of the horizontal needles made with a straight branch ε f and a curved branch f g.

No. 10,423. Fertilizer Distributor. (Distributeur d'engrais.)

Walter Marks, Hopewell, N. Y., U. S., (Assignee of Gilbert Jessup), 3rd September, 1879, for 5 years.

Claim.—1st. The rotating cylindrical feed cup composed of the shell A and bottom plate B, separated by a continuous opening which is closed by the stationary ring C having a lateral feed opening and a gate; 2nd. The combination of the rotary feed cup A provided with an opening, near its bottom, surrounded by the stationary ring C having a lateral feed opening and a gate, and the rotating distributor D; 3rd. The combination of the