driven therein, and the conical-headed screw g and lever f, combined with a screw-setting device m, to hold the said screw g in adjusted **Dosition**, substantially as described.

## No. 18,561. Telegraphic Insulator.

(Isoloir Télégraphique.)

Charles C. Hinsdale, Cleveland, Ohio, U. S., 25th January, 1884; 5

Vears.

Claim.—1st. As a new article of manufacture, a telegraph insulator constructed of paper pulp, or a pulp of other fibrous material, substantially as herein set forth and for the purpose specified. 2nd. A telegraph insulator constructed of a composition of paper pulp, or a pulp of other suitable material, and liquid silica or silicon, or other equivalent cementing agents, substantially as set forth and for the purpose foined. 3rd. A telegraph insulator consisting of an insulating head and supporting stem or holder B, formed in one piece and conforth and for the same material, viz., paper pulp, substantially as set forth and for the purpose specified.

# No. 18,562. Electric Motor. (Moteur Electrique.)

Levi W. Stockwell, Cleveland, Ohio, U. S., 25th January, 1884; 15

No. 18,562. Electric Motor. (Moteur Electrique.)

Levi W. Stockwell, Cleveland, Ohio, U.S., 25th January, 1884; 15

Years.

Claim.—let. The combination, substantially as set forth, of the

Phosite adjacent field magnet poles, the armature magnets arranged

analysenely of the other and rotating between said poles, the field

analysenely and parallel with the poles of the field magnet and and the real

and the wound parallel with which the armature coils are connected, and

transport or transport and at right angles to their plane of rotation, the

summature contacts with which the armature coils are connected, and

the summature contacts and connected with the source

there are a set of the field magnet, the armature of the strength of the same proposite adjacent poles of the field magnet, the armature of the strength of the same proposite of the

magnet and armature being so shaped as to bring a relatively increasing area of the pole pieces into proper magnetic relation as the armature-pole approaches and travels part way across the face of the field magnetic pole.

### No. 18,563. Magneto and Dynamo-Electric Machine. (Machine Magneto et Dynamo-Electrique.)

A. de Meuron and Cuenod, (Assignees of René Thury,) Geneva, Switzerland, 25th January, 1884; 15 years.

A. de Meuron and Cuenod, (Assignees of René Thury,) Geneva, Switzerland, 25th January, 1884; 15 years.

Claim.—1st. A dynamo or magneto-electric machine having an inductor of a polygonal shape, formed of an assemblage of rectangular magnetic cores united with pole pieces, in combination with an induction armature composed of a drum upon which are disposed, parallel to the axis, coils united together by wires, which pass across the bases of the drum as a chord corresponding with a fraction of the circumference determined by the number of sides of the magnetic polygon, as above described. 2nd. A revolving induction armature or drum upon which are disposed, parallel to the axis, wires united in such a manner that the currents, generated under the influence of the magnetic poles, are parallel but alternately of a contrary direction under each of these poles, the connections taking place upon the bases of the drum and following the chord corresponding with the fraction of the circumference adapted, as above described. 3rd. A revolving armature or drum composed of an axis and disks K fastened to this axis, an insulated magnetic cylinder M upon the circumference of those disks, the induced wires disposed parallel to the axis upon the magnetic cylinder and connected together in such a manner that the generated currents are transmitted by a number of collecting brushes equal to the number of inducing magneto-electric machine or electro-motor composed of an inductor with multiple poles formed of a double series of opposite magnets, parallel to the axis of rotation of the machine, between which an induced armature moves, composed of induction wires disposed radially around an axis and united together by means of connecting wires passing partly along near the circumference exterior of the disk thus formed partly inside of it, the said wires connecting each induced wire with another induced wire placed at a fixed distance equal to a fraction of circumference determined by the number of magnetic poles, as shown and described

## No. 18,564. Oil Can for Oiling Machinery.

(Godet à Huile pour Graisser les Machines.)

Octavia C. White, New Orleans, La., (assignee of James A. Campbell, Waco, Texas,) U. S., 25th January, 1884; 5 years.

Claim.—lst. In an oil-can, the combination, with the can A and nozzle B, of the wire C and the tube D, held within the can on the bottom of the same, substantially as herein shown and described and for the purpose set forth. 2nd. In an oil-can, the combination, with the can A and the nozzle B, of the wire C, the tube D provided with an apperture E, and the wire I, substantially as herein shewn and for the purpose set forth. and for the purpose set forth.

### No. 18,565. Boiler Furnace.

(Fourneau de Chaudière.)

Ezra W. Van Duzen, New Port, Ky., U. S., 26th January, 1884; 5 years.

years.

Claim.—1st. A boiler-furnace composed substantially of the furnace chamber B and the secondary furnace G, formed within the arch of the bridge-wall and provided with grate-bars H and air spaces I underneath said grate-bars, as set forth. 2nd. In a boiler-furnace, a secondary furnace G formed in the hollow bridge wall, which is provided with air openings l, and the perforated plate or grate-bars H, as set forth. 3rd. In a boiler-furnace, the bridge-wall E provided with the register L, and air passages l conveying air into the secondary furnace G, as set forth. 4th. In a boiler-furnace, the combination of the furnace B, the grate, the bridge-wall at the rear of the grate constructed with the chamber G, the grate H forming a bottom for the said chamber, a perforated ledge under the grate, and an air-space I, as set forth.

### No. 18,566. Method of, and Apparatus for Utilizing an Explosive Compound. (Méthode pour utiliser une Composition Explosible et appareil pour cet objet.)

Robert Punshon and Robert R. Vizer, London, Eng., 26th January, 1884; 5 years.

Claim.—1st. The utilization of picric acid (pure or combined as above described) and nitric acid by enclosing them separately in cartridges, vessels or containers, in such a manner that said acids are kept apart for transit or storage, and can be liberated and combined at, or in the place where the explosive force of the compound is to be utilized, substantially as hereinbefore described. 2nd. An apparatus