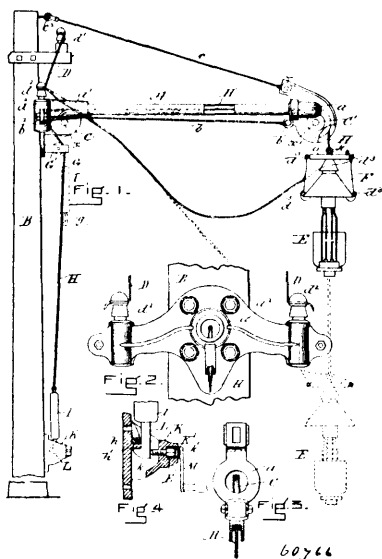


crossed bar gate pivotally connected to the sleeves on the ribs, and the rods connecting the ends of the centre bars of the gate to the end loops of the central rib, as and for the purpose specified. 7th. In a device of the class described, the umbrella proper comprising the ribs 1, 1' and central rib 1' adjustably connected together at the ends, the cover for the ribs, the arch-shaped crossed bar gate pivotally connected to the ribs, and the rods connecting the ends of the centre bars of the gate to the ends of the ribs, as and for the purpose specified. 8th. An umbrella comprising a series of flexible ribs having suitable ends adjustably connected together, a cover suitably secured to the ribs, and a spreading device whereby such ribs may be drawn together or expanded to open the umbrella, substantially as described.

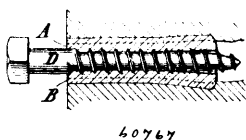
No. 60,766. Mast Arm. (Bras de mât.)



Orvis Prentiss Philbrick, Somerville, and Roanah E. Philbrick, Lexington, both in Massachusetts, U.S.A., 3rd August, 1898; 6 years. (Filed 18th January, 1898.)

Claim.—1st. In a mast arm device for electric lamps, the locking device herein described, consisting of the shell K, the catch *h*¹, the screw-nut *k*, and the hook *L*, combined substantially as and for the purposes set forth. 2nd. In a mast arm, for electric lamps, the combination of the rope H, and the ice breaker G, substantially as set forth.

No. 66,767. Anchor Bolt Bushing. (Dé de boulon à ancre)

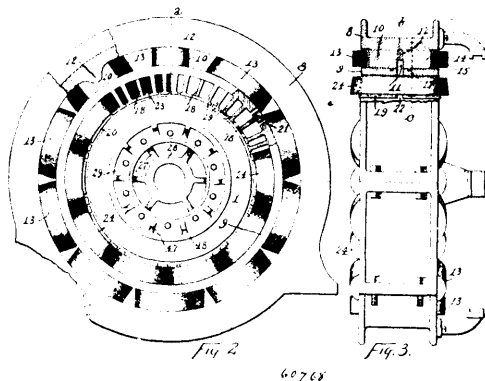


Henry B. Newhall, assignee of John H. Cook, Brooklyn, New York, U.S.A., 3rd August, 1898; 6 years. (Filed 12th January, 1898.)

Claim.—1st. A tubular bushing for anchoring a screw or screw-bolt, in stone, brickwork or like material, consisting of a metallic tube having one or more longitudinal ribs B, and being slotted by a single slot along its length, as and for the purposes set forth. 2nd. A tubular bushing for anchoring a screw or screw-bolt in stone, brickwork or like material, consisting of a metallic tube slotted along its length, for the purpose set forth. 3rd. A longitudinally-slotted tubular bushing A, for anchoring a screw or screw-bolt in masonry or like material, which bushing is provided with walls of varying thickness and with one or more ribs B, substantially as and for the purpose set forth. 4th. A longitudinally-slotted tubular bushing for anchoring a screw or screw-bolt in masonry or like material, which bushing is provided with walls of varying thickness, substantially as set forth. 5th. A longitudinally-slotted tubular bushing for anchoring a screw or screw-bolt in masonry or like material, which bushing is provided with walls of varying thickness, in combination with means acting to expand the inner end of said bushing, substantially as and for the purpose set forth. 6th. A longitudinally-slotted and interiorly-threaded tubular bushing A, for anchoring a screw or screw bolt in masonry or like material, which bushing is provided with one or more longitudinal ribs B, substantially as and for the purpose set forth.

No. 60,768. Dynamo Electric Machine.

(Machine dynamo-électrique.)



Milton Ellsworth Thompson, Ridgway, Pennsylvania, and Charles L. Cornell, Hamilton, Ohio, all in the U.S.A., 3rd August, 1898; 6 years. (Filed 12th October, 1897.)

Claim.—1st. In a dynamo electric machine, the combination, substantially as set forth, of a coil of wire having a binding wrapper, as of cord, and studs projecting from the faces of the coil and having feet engaging under the wrapper. 2nd. In a dynamo electric machine, the combination, substantially as set forth, of a field core provided with a dividing slot, and a coil disposed upon said core and free therefrom so as to form an air space extending around the core and in communication with the slot therein. 3rd. In a dynamo electric machine, the combination, substantially as set forth, of a field frame, a core projecting inwardly therefrom and provided with a dividing slot and with a projection inwardly at the root of the slot, and a coil disposed upon said core and near said field-frame but free from the core and field-frame so as to leave an air space in communication with said slot and extending between the coil and core and between the coil and field-frame. 4th. In a dynamo electric machine, the combination, substantially as set forth, of a field-frame, having inwardly projecting field cores, cylindrically bored at their faces, and a bushing-ring carrying coils, and having its periphery engaging the faces of said cores. 5th. In a dynamo electric machine, the combination, substantially as set forth, of a field-frame having inwardly projecting field cores cylindrically bored at their faces, a bushing-ring carrying coils and having its periphery engaging the faces of said cores, and symmetrically disposed circumferential rib and groove connections between the bushing-ring and core faces to retain the bushing-ring sidewise. 6th. In a dynamo electric machine, the combination, substantially as set forth, of a field-frame having inwardly projecting field cores cylindrically bored at their faces, a bushing-ring carrying coils and having its periphery engaging the faces of said cores, and symmetrically disposed circumferential rib and groove connections between the bushing-ring and core faces to retain the bushing-ring sidewise and to permit of its reversal within the field-frame. 7th. In a dynamo electric machine, the combination, substantially as set forth, of a field-frame carrying inwardly projecting cores and field-coils, an armature concentrically mounted within the field-frame, a bushing-ring carrying coils and encircling the armature and supported by the cores of the field-frame. 8th. In a dynamo electric machine, the combination, substantially as set forth, of a field-frame provided with poles and magnetizing coils, an armature, and a ring carrying coils and interposed between said armature and field-frame. 9th. In a dynamo electric machine, the combination, substantially as set forth, of a field-frame carrying inwardly projecting cores and field coils, an armature concentrically mounted within the field-frame, a bushing-ring encircling the armature and supported by the cores of the field-frame, and a circumferential series of conductors carried by the bushing-ring and disposed parallel with the axis of the armature. 10th. In a dynamo electric machine, the combination, substantially as set forth, of a field-frame carrying inwardly projecting cores provided with field-coils, an armature mounted concentrically within the field-frame, a bushing-ring surrounding the armature and supported by the field-frame and provided with passages extending through it parallel with its axis, and conductors extending across the bushing-ring through said passages. 11th. In a dynamo electric machine, the combination, substantially as set forth, of a field-frame carrying cores and field-coils, an armature mounted concentrically within the field-frame, a bushing-ring surrounding the armature and supported by the field-frame and having passages through it parallel with its axis, and conductors disposed within said passages and joined at each side of the bushing-ring to form a circumferential series of coil carried by the bushing-ring. 12th. In a dynamo electric machine, the combination, substantially as set forth, of a field-frame carrying cores and field coils, an armature mounted concentrically with the field-frame, a bushing-ring having a tire fitting within and held by the field cores and provided with lugs extending across the tire and projecting inwardly to near the armature, and coils formed of conductors wound upon said lugs. 13th. In a dynamo electric machine, the combination, substantially