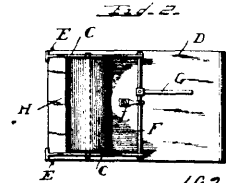
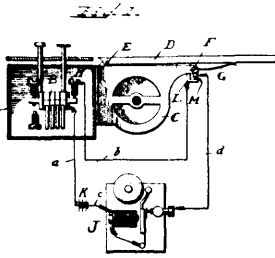


device, a circuit therefor, a pair of contacts arranged in said circuit, an arm-rest connected to one of said contacts, and means for yield-

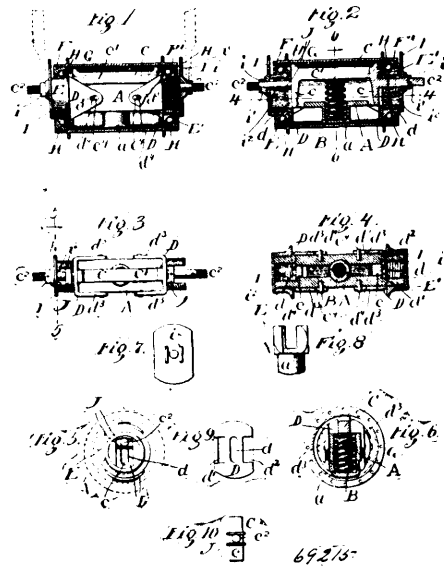


ingly maintaining said arm-rest in position for said contact to make connection with the other of said contacts, as and for the purpose set forth. 5th. In a telautograph, supporting brackets, an arm-rest pivoted at one end upon said brackets, a spring for yieldingly supporting the other end of said arm-rest, a signal device, a circuit therefor, and means whereby when such arm-rest is depressed said circuit is broken, and when said arm-rest is raised said circuit is closed, as and for the purpose set forth. 6th. In a telautograph, a master switch, a signal device and an arm-rest, said switch and arm-rest both arranged to control said signal device, as and for the purpose set forth.

No. 69,214. Cipher Code System. (Système de caractères de convention pour correspondance écrite.)

DRUB	DRUG	DRUM	DRUP	DRUC
fall	1 x 12	12 11	14 11	16 11
fast	2 x 12	12 11	14 11	16 11
flag	3 x 12	12 11	14 11	16 11
flom	4 x 12	12 11	14 11	16 11
flap	5 x 12	12 11	14 11	16 11
flin	6 x 12	12 11	14 11	16 11
flup	7 x 12	12 11	14 11	16 11
flit	8 x 12	12 11	14 11	16 11

No. 69,215. Electric Hub and Axle. (Moyeu et essieux.)



Frank Schmitz, Chicago, Illinois, U.S.A., 2nd November, 1900; 6 years. (Filed 28th July, 1900.)

Claim.—1st. The combination with an axle box, an axle vertically guided therein having guiding legs at its opposite ends, of longitudinally adjustable caps upon the ends of the axle box and adapted to bear upon said guiding legs, and a bearing cone adjustment secured upon the axle box and capable of longitudinal adjustment thereon to tighten the caps upon the axle, substantially as described. 2nd. The combination with an axle box and an axle vertically guided therein, having guiding legs near its ends, of bearing cones secured upon the ends of the axle box and longitudinally adjustable thereon and means adjustable by and with said cones for engaging the guiding legs of the axle to prevent oscillation of the axle with respect to the axle box, substantially as described. 3rd. The combination with a channelled axle box, of an axle guided therein having guide legs near the opposite ends of the axle box and caps arranged upon the ends of the axle box and extending around the sides thereof, said caps being guided both upon the ends and sides of the axle box and bearing upon the guide legs of the axle, substantially as described. 4th. The combination with a channelled axle box, of an axle yieldingly supported in said axle box, plates secured upon said axle and formed with vertical guides adapted to engage the axle box and prevent rotation of the box with respect to the plates, and means for securing the plates themselves against rotation, substantially as described.

No. 69,216. Pump. (Pompe.)

Fraser and Chalmers, Chicago, Illinois, U.S.A., assignee of John Stumpf, Rankenstrasse 27, Berlin, Prussia, 2nd November, 1900; 6 years. (Filed 12th October, 1900.)

Claim.—1st. In a pump, the combination with the pressure chamber, of a piston, suction valve and pressure valve in coaxial alignment, the suction valve being about the piston, substantially as described. 2nd. In a pump, the combination with the pump casing of a discharge chamber therein, provided with a discharge opening, and a pressure chamber casing in the discharge chamber and exposed circumferentially to the pressure therein, substantially as and for the purpose set forth. 3rd. In a pump, the combination with the pump casing of a discharge chamber therein, provided with a discharge opening, and a frusto-conical pressure chamber casing in the discharge chamber and exposed circumferentially to the pressure therein, substantially as and for the purpose set forth. 4th. In a pump, the combination with the pump casing of a discharge chamber therein, provided with a discharge opening, a pressure chamber casing within and surrounded by the discharge chamber, a piston working in the pressure chamber, a valved suction port about the piston and a valved pressure port leading to the discharge chamber, substantially as described. 5th. In a pump, the combination with the pump casing of a discharge chamber therein, provided with a discharge opening, a pressure chamber casing within and surrounded by the discharge chamber, a piston working in the pressure chamber, a valved suction port about the piston, and a valved pressure port below the top of the pressure chamber leading to the discharge chamber, substantially as described. 6th. In a pump, the combination with the pump casing of a discharge chamber therein, provided with a discharge opening, a

Elmer F. Cassel, Seattle, Washington, U.S.A., 2nd November, 1900; 6 years. (Filed 8th August, 1900.)

Claim.—1st. A cipher code in which words or syllables capable of literal translation are so compounded as to form complete cipher words without literal meaning, as set forth. 2nd. A cipher code in which single code words or characters are formed of two united parts or syllables indicating respectively a definition and a group of definitions, as set forth. 3rd. A cipher code consisting of a series of groups each indicated by a word or syllable and containing a series of definitions, each of which latter is also designated by a word or syllable, said words or syllables when united forming a cipher word without literal meaning, as set forth. 4th. A cipher code consisting of a series of groups each indicated by a word or syllable and containing a series of definitions, each of which latter is also designated by a line word or syllable, said line words or syllables being the same for each group, arbitrary cipher words being formed by compounding said page and line words or syllables as set forth.