[April, 1890.

perforated top for the plant or flower stems to pass through, as here-in described and for the purpose specified. 2nd. A portable holder for plants and flowers formed of flexible material impervious to water and having its top perforated with a number of openings, each opening having a flap with a wire or cord attached to it, as herein described and for the purpose specified. 3rd. A portable holder for plants and flowers formed of flexible material impervious to water and having its top marforated with a number of openings, to water and hereing its top marforated with a number of openings. to water and having its top perforated with a number of openings and a larger opening with a lid, or flap to close the same, integral with the material forming the top, as herein described and for the purpose specified.

# No. 34,072. Marginal Index for Bibles.

(Index marginal pour les bibles.)

Byron Laing, Acton, Ont., 9th April, 1890; 5 years.

Claim.—Ist. In a marginal index for bibles, the scallops C, having double parallel index E, stamped thereon, condensed to one-half, substantially as and for the purpose hereinbefore set forth. 2nd. In a marginal index for bibles, the scallops C, having double paral-lel index E, stamped thereon, condensed to one-half, in combination with a transparent facing D, placed in position and arranged sub-stantially as and for the purpose hereinbefore set forth.

# No. 34,073. Vehicle Spring. (Ressort de voiture.)

Hugh A. Stringer, London, Ont., 9th April, 1890; 5 years.

Hugh A. Stringer, London, Ont., 9th April, 1390; 5 years. Claim.—lst. As a new article of manufacture, a tortional spring bar E, formed with an angular end E<sup>1</sup>, substantially as and for the purpose set forth. 2nd. A tortional spring bar E, formed with an angular end E<sup>1</sup>, in combination with a swinging link F, and the body C, substantially as and for the purpose set forth. 3rd. A tor-tional spring bar E, formed with an angular end E<sup>1</sup>, and a returned end E<sup>3</sup>, in combination with the bevelled or wedge shaped nut or washer H, and the strap brace G<sup>1</sup>, in which a socket G, is formed, substantially as and for the purpose set forth. 4th. A tortional spring bar E, formed with an angular end E<sup>1</sup>, and a returned end E<sup>3</sup>, in combination with the swinging link F, bracket F<sup>1</sup>, body C, shaft or other suitable support A, socket bracket I, strap brace G<sup>1</sup>, formed with a socket G, and the bevelled or wedge shaped nut or washer H, substantially as and for the purpose set forth. 5th. The body C, tormed with hooked ends Ct, the strap brace G<sup>1</sup>, formed with sockets G<sup>2</sup>, the cross bar A<sup>1</sup>, and the rubber cushion, R, sub-stantially as and for the purpose set forth. 6th. As a new article of manufacture, a seat, or back of a seat, formed of coils of wire J, as set forth. set forth.

### No. 34,074. Wheel-Barrow Wheel.

(Roue de brouette.)

Jean B. Sicotte, Ashland, Wis., U.S., 9th April, 1890; 5 years.

Claim.—A wheel-barrow wheel consisting of a wrought metal tire having holes drilled for the spokes, the spokes, the alternate ones of which are bent at right angles to the plane of the wheel, in op-posite directions and welded together forming the axle on which are formed collars and journals, the other ends of the spokes are secured in the holes of the said tire, substantially as described.

#### No. 34,075. Electro-Magnetic Temperature (Régulateur électro-mag. Regulator. nétique de la température.)

John V. Stout, Easton, Penn., U.S., 9th April, 1890; 5 years.

nélique de la température.) John V. Stout, Easton, Penn., U.S., 9th April, 1890; 5 years. Claim.—Ist. In an apparatus for actuating valves, dampers and the like, the combination of a main lever, a locking lever arranged to move into and out of the path of the main lever to lock or re-lease the same, armatures carried by said levers, and electro-mag-nets arranged within attracting distance of the armatures and serv-ing to move the levers, substantially as set forth. 2nd. In an appar-atus for actuating valves, dampers and the like, the combination of a main actuating lever provided with an armature, an electro-mag-net located within attracting distance of the armature, a locking lever movable into and out of the path of the main lever and pro-vided with an armature, a second electro-magnet located within attracting distance of said armature and serving to withdraw the locking lever from the path of the main lever, and a spring actin upon the looking lever and serving to return it to the path of the main lever. 3rd. In an apparatus for controlling valves, dampers and like devices, the combination with a main lever, and an actuat-ing electro-magnet therefor, of a locking lever, and an actuat-ing electro-magnet therefor, of a locking lever, and induction with a battery, or source of electrical energy, and with suitable con-ductors, a main lever B, and an electro-magnet for withdrawing the locking lever, and releasing the main lever, and oriting lever is withdrawn, and the main lever is released. 4th. In combination with a battery, or source of electrical energy, and with suitable con-ductors, a main lever B, and an electro-magnet for withdrawing said locking lever, shand an electro-magnet for withdrawing said locking lever, and an alectro-magnet for diffing the same, a locking lever G, and an electro-magnet for battery, or other source of electrical energy, and suitable conductors, a main lever, an electro-magnet for moving said locking lever to hold the main lever, an electro-magnet for moving said lockin

main lever, then to cut out the main lever magnet, thereby permit-ting said lever to fall, and finally breaking the circuit, thereby ren-dering the locking lever magnet inert, and permitting the locking lever to recede slightly from its controlling magnet, and to establish a new path, by which the current shall pass, when the thermostat again closes the circuit.

#### No. 34,076. Fifth-Wheel for Buggies. (Rond d'avant-train de voiture.

David G. Wyeth, Newark, N.J., U.S., 9th April, 1890; 5 years.

(Rond d'avant-train de voiture.) David G. Wyeth, Newark, N.J., U.S., 9th April, 1890; 5 years. Claim.—Ist. In a baggy, wherein lateral buggy springs are ar-ranged triangularly with the rear axle, and come together at the middle of the front axle, the combination of the slip  $\delta$  having the eye d, the clip bar e having the eye f, and the bolt formation g, the spring bed j having the perforated part i, with the axle A having the perforated ear a, combined and arranged as substantially set forth and for the purpose specified. 2nd. In a buggy, wherein lateral buggy springs are arranged triangularly with the rear axle, and come together at the middle of the front axle, a fifth wheel consist-ing of the clip  $\delta$  having the eye d, the clip bar e having the eye f and bolt formation g, the spring bed j having the perforated part i, the axle A having the perforated ear a, the vehicle shaft V, the shaft irrons s, s and clip bars t, all formed, arranged and combined as and for the purpose hereinbefore set forth. 3rd. In a buggy, wherein lateral buggy springs are arranged triangularly with the rear axle, and come together at the middle of the front axle, a fifth-wheel consisting of the combination of the clip bar t, having the bolt for-mation x<sup>2</sup>, the spring bed j having the perforated part i, with the axle B having the perforated ears v, and w combined, and arranged as and for the purpose specified. 4th. In a buggy, wherein lateral buggy springs are arranged triangularly with therear axle, and come together at the middle of the front axle, a fifth-wheel consisting of the combination of the clip bar x, having the bolt for-mation x<sup>2</sup>, the spring bed j having the perforated part i, with the aranged and combined as and for the purpose hereinbefore set forth. 5th. In a buggy, wherein lateral buggy springs are arranged triangularly with the rear axle, and own the while bolt formation d<sup>2</sup>, spring bed j having the perforated part i, and the axle B having the lugs e', f', arranged and combined as and for the purpose specified

# No. 34,077. Milk Ærator. (Aérateur du lait.)

Goodson J. Alford, Bastard, Unt., 9th April, 1890; 5 years.

Claim.-The placing of the weight M on the side of the zerator H, r the purpose of overturning and filling the same, when dropped for the purpose of over into the can of milk R.

### No. 34,078. Hot Water Boiler. (Chaudière de calorifère à eau.)

David L. Dwinnell, George A. Miller and Charles H. Miller, Mont-real, Que., 9th April, 1890; 5 years.

David L. Dwinnell, George A. miler and Charles H. Miller, Montreal, Que., 9th April, 1890; 5 years.
Claim.-lst. In a hot water boiler or furnace, the combination with the fire chamber, and a water jacket surrounding same and communicating with the supply or return pipes, of a series of cast sections superimposed one upon the other, and located immediately above the fire chamber and communicating with a water back in connection with said water jacket, horisontal diaphragms extending into each of said cast chambers from the rear wall of said water back, and a top chamber communicating with the water back, and water back in the flow pipes, the whole being arranged so that there will be zig rag passages for the products of combustion between the different water chambers through which such products of combustion may pass from the fire chamber to the smoke chamber and thence to the flue, substantially as and for the purpose described. 2nd. In a hot water boiler or furnace, the combination with a suitable base including the ash pit and fire chamber, a water jacket A<sup>3</sup>, surrounding said fire chamber St, endosing He heating chamber other within the casing B<sup>1</sup>, and in connection with a sommon water back in turn connects with a common top chamber C, and the whole fastened together by rods or bolts A<sup>4</sup>, substantially as described.

## No. 34,079. Link or Lap Ring. (Chainon brise.)

William H. Baker, Samuel W. Smith and Salmon S. Matthews, Pontiac, Mich., U.S., 9th April, 1890; 5 years.

rontiac, Mich., U.S., 9th April, 1890; 5 years. Claim.—As an improved article of manufacture, a lap ring con-sisting of the two sections A. A<sup>1</sup>, these sections being pivoted toge-ther and constructed, each of a disk a, and the oppositely projecting hook portions b having their adjacent faces flattened, and their ex-posed surfaces rounded, each of the said hook portions having pro-jecting from its outer edges an integral lug d, these lugs fitting in recesses formed in the outer edges of the adjacent hook portions, and having their outer or exposed portions rounded, to conform to the contour of the rings formed by the said hook portions, substan-tially as herein described.

# No. 34,080. Book Binding. (Reliure de livre.)

Rudolph E. Frey, John Buscher and Gustave Frey, St. Louis, Mo., U.S., 9th April, 1890; 5 years.

Claim.-A sewing band for books, having strips secured thereto suitable intervals, forming folding spaces, substantially as described.