serew shank 18 and one or more branches k. 5th. The feed rolls M M with their connected shafts P Q supported in the pivoted frame N and adapted to be vibrated therewith, to carry the nail rod into the path of the cutters, in combination with means for automatically rotating the feed wheels to advance the nail rod, after each finished nail has been severed therefrom. 6th. The feed rolls M M with their connected shafts P Q supported in the pivoted frame N and adapted to be vibrated therewith, to carry the nail rod into the path of the cutters by me chansin connected with the reciprocating bar V. in combination with the ratchet wheel ht and pawlet, whereby the rotation of the feed wheels, to advance the nail rod, is effected in the return movement of the shaft P Q, after the finished and has been severed. Th. In combination with the hammers D D G G, the vertical slide bars A: B, the latter Bi arranged to pass botween the leves of the said hammers, said bars being provided with adjustable cutters hs in and adapted to be simultaneously moved in opposite directions to cause the cutters to advance and recede. 8th The combination, with the vertical slide bars A: B, of the pivoted rocker C connected therewith and actuated by the reciprocating bar V. 9th. The combination, with the sliding bar V, of the rock shaft E, and its lever D connected, at one end, with the piston rod f and having, at its opposite end, a projection n adapted to enter a notch with the bar V, and the lever G: and its note his, of the projections not not he wheel H:, as the latter is rotated by mechanism connected with the piston rod. 10th. The combination, with the lever D and its projection n, and the slide bar V with its notch ni, of the projections not on the wheel H:, at the ratchet wheel I: secured upon the shaft d of the wheel H: and rotated intermittently by the pawlet provoed to the sam f: of the rock shaft E:, whereby the cutters and feed rolls are brought into action and ecturne? to their normal position at each complete revolution of the m

No. 13,623 Improvements in Apparatus for Lowering and Raising Boats on Vessels. (Perfectionnements aux appareits d descende et monter les canots des vaisseaux)

Reginald H. Earle, St. Johns, Mfd , 4th November, 1881 ,for 5 years.

Reginald H. Earle, St. Johns. Mfd. 4th November. 1881 for 5 years. Claim.—1st. The fixed dayits C, swinging frame D and cradle E, provided with rope and tackle. 2nd. In boat lowering apparatus, the swinging frame consisting of the bent arms of connected together and carrying a suspended cradle at their outer ends, in combination with the dayits C. Brd. The gravity cradle E consisting of hooks I and cradle for being rused and lowered from the swinging frame. D that is fitted for being rused and lowered from the vessel. 4th. In boat lowering apparatus, the combination of stands B, privoted dayits C and the swinging frame D joined I the side of the vessel, wher by either the boat the frame can be suspended from the dayits. 5th. The levers not nonlination with the stands B, and swinging arms coof the frame D. 6th. The dogs b combined with the stands B, and jointed dayits C.

No. 13,624. Improvements in Electrical Lamps. Perfectionnements aux lampes electriques.

Henry B. Sheridan, Cleveland, Ohio U.S. 4th November, 1881, for 5 years.

Henry B. Sherdan, Cleveland, Onto U.S. 10th November, 1881, for a years.

Claim-1st.** In combination with the core** working 1a the two coils D.E., and the carbon holders k.ki., of the lever d provided with the arm i and plate b. the lever o provided with the pawlin, having a different protting point from the lever d and connected with the said lever d adjustably, the spring is the three part cone patter H and the chains I.V. whereby the points of the carbons are kept in the same position automatically. 2nd. The combination, with the base plate B and the spring is of the part j having offset, and the seriew k carrying sliding block l, whereby the tension of the said spring can be regulated. 4nd. The combination, with the lever d operated by the magnet core c, and the base plate B, of the non-conducting hanger m having copper plate n, the non-conducting standard p having copper plate n, and the conduction wires i q leading to the binding posts Usi, whereby the constitution of a current through the said binding posts. The combination, with the carbon holder R having perforated gaide plate, guide rods X X attached to plate Y and carbon S, of the carbon S, holder ki, pipe O, wire T, condact plates n n and wires q r, whereby the abnormal separation of carbons S Si operates to form a short circuit between the binding posts of the line wires. 5th. The combination, with the open outer ends of the magnet coils, of the vibrating plates 4, whereby the sliding core is retarded.

No. 13,625, Improvements on Cigar-holders.

(Perfectionness als any portingues

Henry A. Stone, Brooklyn, N. Y., U.S., 4th November, 1881; for 5

Years.

Claim.—1st. The combination, with the mouth piece A, of the holding tube B having spring arms C, and the sliding sleeve D, said holding tube and sleeve having corresponding exlindrical portions. 2nd. The combination of a month piece with a holding tube provided at one end with spring arms, and with a sleeve similar in form to said holding tube, adapted to slide thereon and compress said spring arms, gaid holding tube and sleeve being formed with closely fitting exlindrical portions, whereby a practicality air-tight point is appended be tween said portions at any point of adjustment.

No 13,626 Improvements in Paint Mills.

(Perfectionnements aux moulins à couleurs.)

John McDougall, Montreat, Que., 4th November, 1881: for 5 years Claim.—One or more of the rollers having in addition to the ordinary rotary motion, a transverse reciprocating vibratory movement. No. 13,627. Improvements in Stove Educts. Perfectionnements aux décharges des caloriferes \

John F. bloyd, Boston, Mass., U. S., 4th November, 1881; for 5 years,

Claim.—1st. The smoke receiver A open at its opposite ends, and in its front and rear, as described, and provided with the covers b, the adjustable thimble B and slide C.—2nd. The combination of the elbow pipe S with the smoke receiver A, open at its opposite ends and in its front and rear, and provided with the end covers b, and the adjustable thimble B and slides C.

No. 13,628. Improvements in Wrappers for Bottles, Jars, etc. (Perfectionnements aux classes des bouteilles, jarres, etc.)

Bennett D. Marks, Louisville Ky., U.S. 4th November, 1881, for 5

Claim.—1st. A bottle wrapper made from a sheet or veneer of wood, and having ridges or projections C formed upon its outer surface—2nd. A bottle made from a sheet or veneer of wood with the upper end slotted or pored out, with a retaining cord, band, or tie, which is passed around the bottle in any suitable manner.

No. 13,629. Improvements on Steam Boiler and Other Furnaces. (Perfectionne ments aux fourneaux des chaudières à vupeur et autres.

William S. Hutchinson, Chicago, HL, U.S. 4th November, PSU, (Extension of Patent No. 6,727.)

No. 13,630. Improvements on Chain Pump Buckets. (Perfectionnements aux godets des chapclets.)

Theodore Hovt, (Assignee of Edwin Hoyt), Stanford, Ct., U.S., 4th November, ISSI, (Extension of Patent No 6,873.)

No- 13,631. Improvements on Spring Hoes, or Teeth for Grain Drills. (Perfectionnements aux houes elastopues, ou dents des amoirs-traceurs.

James S. Bogle, Thomas Ludlow and Rodgers Springfield, Ohio, t. S., 4th November, 1881. (Extension of Patent No. 7-808.)

No. 13,632. Improvements on Pumps. (Perfec tronnements aux pompes.)

Julius A. Pease, West Medford, Mass., 8th November, 1881; for 5 years.

years.

Claim.—1st A pump-cylinder having a lift-discharge, a force discharge and an intermediate hollow piston, provided with discharge openings at its top, and an inlet valve at its lower end, and having an adjustable stop-rod adapted to close the said piston valve. 2nd. The combination, in a pump having a lift discharge above the piston, and a force discharge below the piston, of the hollow cylindrical piston F open at its upper end and having a valve at its lower end, with an adjustable stop rod N carried by said piston and having the relation to its valve. 3rd The combination, in a pump, of the cylinder sections Ad 4, the hollow piston F, open at its top and valved at its lower end, and a packing for said piston, with the adjustable stop-rod N, a lift-discharge at the top of said cylinder and a valved force discharge below said piston.

No. 13,633. Improvements on Apparatus for Purifying Alcoholic Liquors. (Perfectionnement aux appareils d'rectifier les liquenes alcoholiques.)

Beron A Osgood, Wakefield, Mass., U.S., 5th November, 1881. for 5 vears.

Nears.

Charm.—1st The improved apparatus for purifying liquors consisting of the retort a having evaporating tubes c and pan d, the conductor f containing two or more sets of imper and outer cones Kl and n peach outer one provided with a perforated pan m and the tank g having faucets g_t . 2nd. The pan d having a central depression and provided with tube d, perforations ct and annular partition c, in combination with the retort and lower set of cones. 3rd. The combination, of the outer cone K having notches K and supporting the perforated pan m, and the inner cone l secured to the outer cone and having its lower raised above the pan upon which the outer cone rests the outer cone being open and the inner cone closed at the top. 4th. In combination, with the set of cones Kl and pan m, the similar set of cones p n supported by said pan.

No. 13,634. Improvements on Car Axle Box (Perfectionnements aux Lubricators. boîtes à graisse des chars)

Giles F. Gear, Cleveland, Ohio, U.S., 5th November, 1881, for 5 years.

Claim—1-1 In a railway car journal box, the brush Je proted to the bar I the means of a stem or wrist connecting the said brushes to said bar. 2nd. In car axle boxes, the oil vessel or reservoir F constructed and arranged in relation therewith and to the axle, in combination with the bar I and brushes. 3rd. In combination with a car axle box, the ring I provided with one or more guides extending across the periphery of the said ring and reaching over the collar or journal of the axle. 4th. In combination with a car axle box, the pivoted brushes J and ring I provided with a curved or caved periphery and guides extending across said cave and reaching over onto the collar or journal.