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No. 27,952. Tubular Lantern.

(Lanterne tubulaire.)

W. C. Whitney, Newport, Vt., U.S., (assignee of Charles E. Kennedy, Beebe Plain, Que.), 7th November, 1887; 5 years.

Beebe Plain, Que.), 7th November, 1887; 5 years. Claim.—1st. In a tubular lantern, the combination, with the bar-rel B carrying and holding the globe of a journal neck b, b, short hinge-barrel C tree to turn upon said neck, the bracket d, cover D, tube E: and hot air chamber E, substantially as set forth. 2nd. In a tubular lartern, the combination of the hinge-barrel B, neck δ, b , short barrel C, bracket d and cover D, substantially as set forth. 3rd. In a tubular lantern, the combination of the tube A11, hinge-barrel B, hooked-spring F and catch F1, substantially as set forth. 4th. In a tubular lantern, the combination of the tube A11, hinge-barrel B, hooked-spring F and catch F1, substantially as set forth. 4th. In a tubular lantern, the combination of the tube A11, hinge-barrel B, hooked-spring F and catch F3, substantially as set forth. 4th. In a tubular lantern, the cubic C, cover D connected to hinge C, hot air chamber E, short open tube E1, spring F and catch F1, substan-tially as set forth. 5th. In a tubular lantern, the combination of the hot air chamber E, downward projecting open tube E1. cover D, bracket d and short hinge barrel C, substantially as set forth.

No. 27,953. Hand Power Drilling Machine. (Machine à percer à la main.)

Riverious P. Elmore New York, N. Y., (co-inventor with Jacob O. Ehbets, Milwaukee, Wis.), and George G. Tillotson, Strouds-burgh, Penn., U.S., 7th November, 1887; 5 years.

burge, Penn., U.S., 7th November, 100; ; 9 years. Claim.—Ist. In a rock-drilling machine, in combination, an oscil-lating hammer, a catch or spring holder so fitted in the frame as to occupy two positions in one locked behind the hammer, and in the other out of the path of the same, and a spring held between the catch and the hammer when the catch is in its looked position, sub-stantially as set forth. Zud. In a rock-drilling machine having a longitudinally moving drill holder, and a feeding screw, of a slide actuated by the drill-holder, a ratchet wheel surrounding

and provided with means for imparting rotary motion to the screw, a transverse slide, and feed pawl arranged to act on the ratchet wheel, and a connection between the longitudinal and transverse and provided with means for imparting rotary motion to the sorrew, a transverse slide, and feed pawl arranged to act on the ratchet wheel, and a connection between the longitudinal and transverse slides whereby they are caused to move in unison, substantially as and for the purposes set forth. 3rd. In combination, the hammer i, the spring k, the L-catch l and the rear end of the carriage, pro-vided with a square scoket hole, substantially as and for the purpose set forth. 4th. The double handle formed of two pieces, in combi-nation with locking teeth formed on their adjacent connecting faces, one of the pieces having said locking teeth on both of its sides and connecting bolts, substantially as and for the purpose set forth. 5th. In combination, the hollow drill-holder f, the chuck f' secured to its front end, the collar f at its rear end, and the guide sleeve h pro-vided with the elastic washer h detachably fitted in its rear end, sub-stantially as and for the purpose set forth 6th. The combination, with the main frame a and screw c, of the carriage b, sliding half nut n fitted in guides at the rear side of the carriage b, sliding half nut n fitted in guides at the rear side of the carriage, and the handle sit located at the front of the carriage, and provided with a orank pin acting in a slot in the nut, substantially as and for the purpose set forth. 7th. In combination, the drill-holder f, the slide g, the bell-crank g1, the slide o1, the pawl o, the ratchet wheel p and the screw c, substantially as and for the purpose set forth. 8th. The combination, with the main frame a and grooved screw c, of the car-riage b, the ratchet wheel p having a spline p1, the pawl o, the slide o2, the bell crank lever g1, the forked slide g and the oircounferen-tially grooved drill-holder, substantially as and for the purpose set forth. 9th. In combination, the spring k, the L-catch l, the hammer shaft, the links 24, 35 sliding on the belt s⁶, the forked lever s joined to each of the links 24, 35, the connecting link i

No. 27.954. Portable House. (Maison portative.)

William M. Ducker, New York, N.Y., U.S., 10th November, 1887: 15 vears.

William M. Ducker, New York, N.Y., U.S., 10th November, 1887; 15 years.
Claim.-Ist. A portable house, consisting of a central longitudinal section A, floor sections M and side sections B, C, in combination with suitable end secribed. And shown. 2nd. In a portable house, a shaft, as A, provided with suitable locking devices to support the floor centrally, substantially as described and shown. 3rd. In a sportable house, a central longitudinal part A adapted to support the floor sections, provided with suitable devices, as the floet m, adapted to adjust the outer portions of the sections to the inequalities of the ground, substantially as described and shown. 3rd. In a section of the sections of place independently, substantially as described and shown. 2nd. In a portable house, a floor consisting of sections M, M, provided with key pieces Z, Z, adapted to permit the sections M, M, provided with key pieces Z, Z, adapted to permit the sections M, M, provided with the yothele house, the floor sections M, provided with the portable house, the floor sections M, provided and shown. 5th. In a portable house, the substantially as described. And suitable end sections E, E, F, and roof sections G, G, substantially as described and shown. Sth. In a portable house, the door sectione L, tongue pieces d. d and sliding door H, substantially as described and shown. 10th. In a portable house, the door sectione G, with window openings therein, in combination with a suitable shuter C2 to swing outwardly and glazed sesh C3 to swing inwardly, substantially as described. 11th. In a portable house, the trays B, C and shown. 12th. In a portable house, the tray, as B, provided with a bed adjustable thereto, and adapted to fold into such tray, substantially as described. And shown. 12th. In a portable house, the tray, as B, provided with a bed adjustable thereto, and adapted to fold into such tray, substantially as described. And shown. 12th. In a portable house, the tray, as B, provided with the plates Y having dovetail

No. 27.955. Carbon Machine.

(Machine à pointes de charbon.)

John T. Lister, Cleveland, Ohio, U. S., 10th November, 1887; 5 years.

John T. Lister, Cleveland, Onlo, C. S., Ith November, 1637; 5 years. Claim.—lst. The combination in a carbon machine, of a press, a furnace and a mould, with a carrying support for the mould between the press and the furnace, whereby the mould is conveyed from the furnace to the press and back again to the furnace, substantially as set forth. 2nd, The combination, in a carbon machine, of a furnace having a passage-way for the mould, with a press and a mold for the carbon constructed to be carried through the furnace, whereby the carbon dust is warmed as the mould passes through the furnace, substantially as set forth. 3rd. In a carbon machine, a press, fur-nace and a carrying support for the mould between said parts, in combination with a mould and a device for filling the mould, sub-stantially as set forth. 4th. The combination, in a carbon machine, of a device for filling the mould, a furnace in which the carbon dust is heated in the mould, whit said mould and a press, substantially as set forth. 5th. In a carbon machine, a furnace, substantially as set forth. 5th. In a carbon machine, a device for filling the mould, a furnace the arrying an open passage-way extending through it, and constructed to heat the car-bon dust in the mould, a furnace baving a passage-way through it, and a press, in combination with a support connecting said filling device, furnace and pressin a circuit, whereby the mould is conveyed round from one to the other in turn, substantially as set forth. 7th. In a carbon machine, a stationary mould-filling device, and a furnace constructed with a passage-way through it for the mould, in combi-