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INVENTIONS PATENTED.

No. 3681. GEORGE B. CORNELL, Chicago, Ill., U. S., 20th July, 1874 for 5 years: "Improvements on Wrenches for Inserting Bung Bushes." (Perfectionnements aux clés à ajuster les des des bondes.)

Claim.—The shank or handle A, and core B, provided with the base C, having a series of irregular surfaces adapted to bear against corresponding sections E, whereby the separate sections are adjusted outward uniformly from the centre and against all parts of the bush.

No. 3682. CHARLES C JÉRÔME, Chicago, Ill., U. S., 20th July, 1874, for 5 years: "Moth Proof Fur Cases." (Boîtes à fourrures à l'épreuve des mites.)

Claim.—The cover F, having a circular groove *g*, and lugs G, G, cut and attached on its inside face as described, in combination with the rings *a*, and *c*, and partings D, and inclines E, arranged and combined as specified.

No. 3683. REUBEN P. COLTON, Gananoque, Ont., 20th July, 1874, for 5 years: "Improvements on Harrows and Cultivators." (Perfectionnements aux herbes et aux cultivateurs.)

Claim.—1st The rails *a*, constructed as shown in figs 1 and 4, and having diamond shaped socket *g*, formed as described, and tooth *h*, of the configuration shown, all combined and working together as set forth; 2nd. The socket *g*, having flat surfaces *k*, as shown in fig. 5; 3rd. The rail *a*, having the cross-section shown in fig. 4, with grain of iron as shown.

No. 3684. JAMES M. FOSS, St. Albans, Vt., U. S., 20th July, 1874, for 5 years: "Improvements on Railway Locomotives." (Perfectionnements aux locomotives de railroutes.)

Claim.—1st. The combination of the pipe *g*, with the pipe *h*, constructed arranged and operated as described; 2nd The combination of chimney *d*, pipes *g*, and *h*, plate *e*, and exhaust *d*, all working together as set forth; 3rd. The combination of the pipes *g*, and *h*, shafts *l*, and *l*, arms *m*, cranks *o*, and *p*, and rods *q*, all working together as set forth.

No. 3685. THOMAS FORD, Plattsville, Ont., 20th July, 1874, for 5 years: "Machine for Cutting the Tapering Plug end of Well Tube Joints." (Machine à tailler cône les joints des tuyaux de puits.)

Claim.—The body A, cylinder B, cutter frames D, D, having knives E, bars G, and screw-arm I, and clamp-screws H, when all the parts are constructed and arranged as specified.

No. 3686. JOHN D. RICHARDSON, Houston, Texas, U. S., 20th July, 1874, for 5 years: "Improvements on Springs." (Perfectionnements aux ressorts.)

Claim.—A metallic spring composed of flexible bars A, connected together at the ends and so constructed with reference to their connection with the load to be supported that when in operation the leaves may be under tensile strain in the manner specified.

No. 3687. JOHN RUTHVEN, Lévis, Que., 20th July, 1874, for 5 years: "Gas Machine." (Machine à gaz.)

Claim.—1st. The combination with the carburetter A, having evaporating chambers A', A', A', formed therein of a secondary carburetter H, having evaporating chambers H', H', H', and H', and connected with A, by one or more pipes V; 2nd. In combination with the carburetter A, and secondary carburetter H, each provided with evaporating chambers, the gas chamber I, and drying chamber P; 3rd The supply pipe S, and branch pipe T, (each with stop-cock) serving to admit the hydrocarbon fluid either into the main carburetter A, or the secondary carburetter H; 4th. In combination with the evaporating chamber H', H', H', and H', of the secondary carburetter H, draw off pipes U, U', V', and U', provided with stop-cocks and respectively connecting with the evaporating chambers with the pipe S; 5th. In combination with any carburetter the chamber D, placed between the air pump and the carburetter and provided with means for heating the air passing through it; 6th. The wicking or other analogous substance K, arranged in the evaporating chambers A', A', A', and H', H', H', and H'.

No. 3688. ORVILLE K. WOOD, Westchazy, N. Y., U. S., 20th July, 1874, (Extension of Patent No. 2524.) for 5 years: "Machine for Cleaning, Separating and Grading Grains, &c." (Machine à nettoyer, séparer et assortir les grains, &c.)

Claim.—1st. The combination of the smooth and cog rollers *a*, *a*, and *c*, in combination with plato X, rollers *a*, *a*, and *c*; 2nd The dowells B, B, in combination with the feeder J, and moveable *l*, into *a*, *a*; 3rd. The shoe D, D; 4th The rod *n*, the guides *q*, *q*, and R, R, the plates S, S, and T, T; 5th The blank board *f*, *f*; 6th. The lock pins *h*, *h*, 7th. The method of confining the wind blast; 8th. The fluted irons *x*, *x*, and W, W, and the cog roller B; 9th. The fanning mill or separator, constructed, combined and arranged as described.

No. 3689. ORVILLE K. WOOD, Westchazy, N. Y., U. S., 21st July, 1874, (Extension of Patent No. 2524.) for 5 years: "Machine for Cleaning, Separating and Grading Grains, &c." (Machine à nettoyer, séparer et assortir les grains, etc.)

No. 3690. WILLIAM E. WRIGHT, Rome, N. Y., U. S., 21st July, 1874, for 5 years: "Drying-house." (Sécherie.)

Claim.—1st. The combination of the case with recess and perforated lining with furnace A, in fig. 2, and smoke receiver B, hot air chamber C, adjustment of smoke pipe D, exhaust steam pipe I, suction and injector blower E, distributing chamber F, drying chamber G, wit wire cloth shelves or belts and glass cover, escape flue H, and blast pipe K, and L; 2nd. The distributing chamber F, provided with the openings *h*, and *i*, *i*, 3rd The case fig. 1, with recess and perforated lining and copper bottom and form of hexagonal outlet; 4th. The furnace A, as constructed to form a hot air