

No. 4765. SAMUEL W. BENHAM, Sweetsburgh, Que., (Assignee of M. B. Hubbell,) 4th June, 1875, for 5 years: "Fire Kindler." (Allumeur de feu.)

*Claim.*—1st. The spoon burner or holder A, A, or in any other forms which may embody the principles of the said invention; 2nd. A compound to be used therein and therewith of any inflammable liquid or oil with either ashes, sand, gravel, brick dust, or any other non-combustible matter of a powdery or porous nature,

No. 4766. HAMILTON L. SMITH, Westminster, Eng., 4th June, 1875, for 5 years: "Single Rail Railway." (Railroute à un rail.)

*Claim.*—The method of steadying or guiding in a vertical position vehicles running on a single rail by means of one or more sets of guide wheels or rollers mounted on the top or at the sides of the vehicle so as to bear against guide-timbers or rails fixed above the ground, the said means of guiding being also applicable for the purpose of driving and braking.

No. 4767. ISAIE FRÉCHETTE and LOUIS COTÉ, St. Hyacinthe, Que., 4th June, 1875, for 5 years: "Improvements on Stiffeners for Boots and Shoes." (Perfectionnements aux contreforts de chaussures.)

*Claim.*—The mode of separating a sheet of leather or leather board or other material into strips for being converted into shank stiffeners, such consisting in cutting it in serpentine-lines *a, b*, arranged as shown in figure 4, and with each of such cuts either square or oblique to the opposite-sides of the strip, in combination with the mode of separating a sheet of leather into strips, viz: by serpentine cuts arranged as described, the mode of separating each of said strips into a series of shank stiffeners, such consisting in cutting it transversely and obliquely to its opposite surfaces in the wider parts of the strip.

No. 4768. LEWIS J. ATWOOD, Waterbury, Ct., U. S., 4th June, 1875, for 5 years: "Improvements on Lamp Burners." (Perfectionnements aux becs de lampes.)

*Claim.*—The combination in a lamp burner, of a deflector hinged at one side, an air distributor above the base of the chimney, a chimney rest connected to the air-distributor, and chimney holding-springs, surrounding the chimney rest and extending above the bottom of the hinged deflector.

No. 4769. GEORGE M. MOWBRAY, North Adams, Mass., U. S., 4th June, 1875, for 5 years: "Im-

provements on Explosive Compounds." (Perfectionnements aux compositions explosibles.)

*Claim.*—A combination of nitro-glycerine with finely divided mica or muscovy-talc.

No. 4770. JOHN STRUTHERS, Alma, Ont., 4th June, 1875, for 5 years: "Improvements on Snow-Ploughs." (Perfectionnements aux char-rues à neige.)

*Claim.*—The flat-top H, of a Snow-Plough, a Snow Guard G, and the rear end of the two square-chambers E, E, turned upwards and outwards, in combination with a Snow-Plough A.

No. 4771. JULIUS E. WATEROUS, Brantford, Ont., 4th June, 1875, for 5 years: "Improvements in Steam Surface Condensers and Feed Water Heaters for Steam Engines." (Perfectionnements aux condensateurs de surface de vapeur et aux chauffeurs de l'eau d'alimentation des machines à vapeur.)

*Claim.*—1st. The combination of the movable case G, surrounding the tubes E, and connected to the upper and lower heads at joints H, H; 2nd. The combination of the flattened tubes E, E, surrounded by water through which the steam passes connecting chambers C, D, and F.

No. 4772. THOMAS E. WEBBER, Pittston, Me., U. S., 4th June, 1875, for 5 years: "Harness Lug-Lining." (Doublure de bracelets de harnais.)

*Claim.*—A harness-lug-lining formed with the body *a*, shaft seat *c*, projecting ears *d, d*, and clinching-points *b, b*.

No. 4773. CHARLES D. WILSON, Elmwood, Ill., U. S., 4th June, 1875, for 5 years: "Improvements on Compounds for Picture Frames." (Perfectionnements aux compositions à cadres d'images.)

*Claim.*—A compound composed of straw, wood, rag or manilla-pulp mixed with gum, shellac, alcohol, glue, molasses, glycerine, and a solution of copper: in about the proportions specified.

