

tion F, and screen E, with a locomotive chimney; 3rd. The lower portion of the screen made of the tapering form described, so as to increase the annular space between the chimney and the screen from the obstruction upward, as specified.

No. 2985 ALLAN S. McDONELL, Osgoode, Ont., 9th January, 1874, for 5 years: "Improvements in Cultivators." (Perfectionnements aux cultivateurs.)

Claim.—1st. A cultivator having its frame A, mounted centrally on two wheels with an adjustable castor wheel N, supporting its rear end and having the rotating toothhead cylinder J, suspended in bearings from the rear end of said frame in combination with the fixed teeth M, all constructed and arranged to operate as described; 2nd. In combination with the frame A, having the cylinder J, and teeth M, arranged to operate as described, the adjustable seat V, and the tongue U, hinged to the frame at or near its centre, whereby more or less weight can be applied to the cylinder and the frame with its attachments be left free to follow the undulations of the surface as set forth.

No. 2986. BARAK T. NICHOLS, Roselle, N. J., U. S., 9th January, 1874, for 5 years: "Improvement on Nails and Spikes." (Perfectionnement des clous et chevilles.)

Claim.—As a new article of manufacture in a nail or spike formed of sheet metal and grooved, ridged or corrugated longitudinally to stiffen it as described.

No. 2987. ROBERT S. JARVIS, Toronto, Ont., 9th January, 1874, for 5 years: "Quilting Frame." (Métier à piquer.)

Claim.—The combination of the slotted bolt G, with the legs D, and the rollers C, C.

No. 2988. PIERSON COPE, Perryopolis, Penn., U. S., 9th January, 1874, for 10 years: "Fence Bar Bracket." (Console de p-rche de palissade.)

Claim.—1st. The fence bracket C, having the pivoted blocks a, in combination with the horizontal bars A; 2nd. The bracket C, pivoted to the post B, and holding the pivoted blocks a.

No. 2989. WILLIAM T. DOREMUS, New York, U. S., 9th January, 1874, for 15 years: "Springs for Furniture and other purposes." (Ressorts de meubles et autres.)

Claim.—An improved spring formed by connecting elastic blocks A, and rigid blocks B, with each other alternately by means of flexible connections C.

No. 2990. FREDERICK E. DIXON, Toronto, Ont., 9th January, 1874, for 5 years: "Sash Fastener." (Arrête-croisée.)

Claim.—The dog C, having fan-shaped wings E, E, in combination with the dovetail-shaped notch G.

No. 2991. JOHN J. LAHAYE, Reading, Penn., U. S., 9th January, 1874, for 5 years: "Car-coupling." (Attelage de wagon.)

Claim.—1st. The combination of the independent partitions or guides D, with the sliding bolt E; 2nd. The combination of the said independent partitions or guides with a hinged retaining and releasing device for the coupling pin as described and illustrated in figure 6, of the drawing; 3rd. The combination of the said independent partitions or guides with the sliding bolt F, and with devices connected therewith or any equivalent of the same through the medium of which the separation of the partitions on the introduction of a link may be caused to release the pin B, and effect an automatic coupling of the cars; 4th. The combination on and arrangement of the said partitions or guides, a sliding bolt and coupling pin connected together at the top or forward of a single bent rod and a catch d, adapted to notches on the sliding rod and having a sleeve r, resting on the uppermost partition; 5th. The combination with the subject matter of the fourth claim, of a chain and rod or retainer B, arranged as described; 6th. The arm K, adapted to the sliding rod F, or loosely sliding thereon, and arranged in respect to the partitions D, as specified.

No. 2992. ELAM F. AUSTIN, Rochester, N. Y., U. S., 9th January, 1874, for 5 years: "Combined Ottoman and Lady's Companion." (Ottomane et boîte à ouvrage combinées.)

Claim.—An ottoman, constructed with indented vertical rectangular sides A, and provided with a hinged lid E, at top, and a horizontal draw board or slide B, whereby upper and lower compartments C, D, are formed for use as a ladies' work-box as set forth.

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