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INVENTIONS PATENTED.

NOTE—Patents are granted for 15 years The term of years for which the fees have been paid, is given after the date of the patent.

No. 24,403. Treating and Preparing Resins.

(*Traitement et Préparation des Résines.*)

Henry W. Peabody, Salem, Mass., U.S., (assignee of Albert Kissel-Frankfort-on-the-Main, Germany,) 3rd July, 1886, Re-issue of Patent No. 21,625.

Claim.—1st. The conversion of the acids contained in the balsams or resins hereinbefore referred to, or in their products or compounds, or by-products, or in mixtures of such resins with other substances as mentioned, by means of caustic lime or other caustic alkaline earths into the salts of those earths respectively, in order to harden such resins, resinous by-products or resin preparations. 2nd. The act of combining caustic lime or other caustic alkaline earth, with the acid or acids contained in either or any of the resins or resinous products hereinbefore referred to, in order to harden such resin or resinous product or to raise the same to a higher softening point, substantially as described. 3rd. The method of hardening of either or any of the resins or resinous products hereinbefore referred to, by partially or wholly neutralizing the acid or acids contained therein, by the combination of such acid or acids with caustic lime or other caustic alkaline earth, substantially as described. 4th. The herein described resin or resinous product brought to a higher softening point by the partial or entire neutralization of the acid or acids contained therein, by combination of such acid or acids with caustic lime or other caustic alkaline earth, to form a salt or salts of such alkaline earths respectively.

No. 24,404. Road Cart (*Désobligeante*)

Charles W. Noyes, Kalamazoo, Mich., U.S., 3rd July, 1886, 5 years.

Claim.—1st. The T-bars having the central transverse slat or brace secured upon them by the clips fitting the under flange of the bars, the springs, the eye-bolts passed down through the clips and brace, and the hangers connecting the eye of the bolts and the free end of the springs, all combined substantially as set forth. 2nd. The combination of the T bars, the central slat or brace, the clips fitting the vertical flange of the bars bolted to the upper flanges of said bars, and their outer end forming a washer for the nuts, of the eye-bolts which connect with the suspending rods, substantially as set forth.

No. 24,405. Road Cart. (*Désobligeante.*)

Charles W. Noyes, Kalamazoo, Mich., U.S., 3rd July, 1886; 5 years.

Claim.—In a two-wheeled vehicle having a suspended body, which supports the seat and foot-slats, the body having the bowed portions of its sides composed of two bars similarly curved, separated a little one above the other, running substantially parallel with each other, and rigidly held in this relative position by a series of transverse bolts, substantially as set forth.

No. 24,406. Fence Post. (*Pieu de Clôture.*)

Houghton W. Wilson, Kingston, Ont., 3rd July, 1886; 5 years.

Claim.—A fence post consisting of a flat bar upright A, having its lower end bent in the direction of the flat side at a right angle, and the end so bent, curved sideways into a scroll or circle to form a foot A', a flat bar brace B provided with a foot B' similar to the foot A' of the upright, the upper end of the brace movably clipped upon and

riveted or bolted to the upright, and connected by an adjustable angle-bracket C, rigidly securing it at the required angle to the upright, substantially as shown and described and for the purpose set forth.

No. 24,407. Fence Post. (*Pieu de Clôture.*)

Houghton W. Wilson, Kingston, Ont., 3rd July, 1886; 5 years.

Claim.—1st. A fence post consisting of an upright A, foot F composed of two bars having their central portion curved or bulged outward, and their ends substantially parallel and respectively adapted to be connected to the upright A, and a brace B. 2nd. A fence post consisting of an upright A, foot F curved to spread upon the ground, and connected to the upright A by a block or coupling C. 3rd. The combination of the upright A, notches a', foot F, block or coupling C and brace B. 4th. The combination of the upright A, foot F, block or coupling C, all substantially as shown and described and as and for the purpose set forth.

No. 24,408. Fence Post. (*Pieu de Clôture.*)

Houghton W. Wilson, Kingston, Ont., 3rd July, 1886, 5 years.

Claim.—1st. A fence post consisting of a flat bar upright A, a cross bar F morticed or notched in the centre to receive the upright pins or lugs E, F, driven obliquely and in opposite directions through mortices at the ends of the bar F. 2nd. The combination of an upright A, coupling C, cross bar F and oblique pins E, F, all substantially as shown and described and as and for the purposes set forth.

No. 24,409. File for Letters, etc.

(*Serre-Papier.*)

William A. Cooke, jr., and Charles S. Cooke, Brooklyn, N.Y., U.S., 3rd July, 1886; 5 years.

Claim.—1st. In a file for letters, papers, bills, etc., the combination of one or more tubular impaling needles or standards, and one or more corresponding transfer wires placed in a tubular socket or sockets and connected therewith by a bayonet joint, substantially as specified. 2nd. The combination of a tubular impaling needle or standard, a socket or tube provided with slots b, d, and a transfer wire having its upper end curved so as to join with, and enter the tubular impaling needle, and its straight portion or shank entered into the tube or socket, and provided with a pin e, which projects into the slot b and guides the transfer wire when raised and lowered, and when turned or swung out of conjunction with the impaling needle, enters slot d and sustains the transfer wire out of connection with the impaling needle, substantially as specified. 3rd. The combination of the tubular impaling needle, and a transfer wire having the end e squared off, so as to form, with the upper end of the impaling needle, a perforator or punch for the paper, substantially as specified. 4th. The combination of the tube or socket C, provided with slots b, d, the transfer wire having a pin e in the shank, and the end g of its curved portion squared off, and the tubular impaling needle B, substantially as specified.

No. 24,410. Apparatus for Drying Wool, Cotton, Cellulose, Wood Pulp, etc. (*Appareil pour Sécher la Laine, le Coton, la Cellulose, la Pâte de Bois, etc.*)

Arnold Manzinger, Olten, Switzerland, 3rd July, 1886, 5 years.

Claim.—1st. In a drying apparatus, the combination of a cylindrical casing, provided at its upper end with disks having segmental openings, and perforated sections adjoining the said openings, and a spirally arranged series of perforated stops or shelves arranged below the said disks with the revolving arm or scrapers, substantially as and for the purpose herein set forth. 2nd. In a drying apparatus, the combination of a cylindrical casing, a spirally arranged series of perforated stops or shelves revolving arms or scrapers, an air-entrance at the bottom of said casing, a V-shaped deflector, and an inverted V-shaped perforated shield or guard for the same, substantially as and for the purpose set forth. 3rd. The combination of a cylindrical casing having an open hopper-shaped bottom, a spirally arranged series of steps within the said casing, a revolving shaft