

members which incline from their points of connection with the sectional chord downward and toward the centre of the truss to their respective points of connection with the lower chord; 2nd. The combination, with an upper sectional chord and an adjusting wedge interposed between the abutting ends of its sections, of braces which incline from their points of connection with the sectional chord downward and towards the ends of the truss to their respective points of connection with the lower chord; 3rd. The combination, with an upper sectional chord and an adjusting wedge interposed between the abutting ends of its sections, of braces which incline from their points of connection with the sectional chord downward and toward the ends of the truss to their respective points of connection with the lower chord, together with the straining members which incline from their points of connection with the sectional chord downwards and toward the centre of the truss to their respective points of connection with the lower chord; 4th. The combination, with a truss consisting of a lower straining member and upper compression member, consisting of two sections, coming together at the middle of the truss, braces D and tie or straining members E, of wedges F located between the inner ends of the compression members, whereby the structure may be stiffened up.

No. 11,371. Process of, and Apparatus for Felting Hat Bodies. (*Procédé et appareil de feutrage des chapeaux.*)

John T. Waring, Boston, Mass., U.S., 11th June, 1880; for 5 years.

Claim—1st. The process of felting hat bodies and other articles, in subjecting such articles to the action of the interior surface of a hollow revolving, turning or oscillating receptacle, whereby they are raised and afterwards caused to roll or turn, or to slide over and fall back by gravitation; 2nd. The process of felting hat bodies and other articles, in subjecting them, during the felting process, to the action of steam in a closed vessel or receptacle; 3rd. A closed hollow revolving or oscillating cylinder or receptacle having its interior surface corrugated or ribbed; 4th. A closed hollow revolving or oscillating cylinder or receptacle provided with means for introducing steam thereinto.

No. 11,372. Separator for Peas. (*Séparateur pour les pois.*)

Napoléon Hébert, sr., Ste. Rosalie, and Alexandre Lapointe, jr., St. Hyacinthe, Que., 11th June, 1880; for 5 years.

Résumé—1o. La combinaison d'un entonnoir K, de deux roues d'engrenage U V, d'une petite manivelle avec la bielle I, d'une trémie inclinée D, d'un crible à gaudriole G et d'un crible à pois G₁; 2o. La combinaison avec l'entonnoir K, les deux roues d'engrenage U V, la petite manivelle avec la bielle I, la trémie inclinée D, le crible à gaudriole G et le crible à pois G₁, de quatre auges A A₁ A₂ A₃ et de trois tiroirs S S S.

No. 11,373. Improvements in Sash-Fasteners.

(*Perfectionnements aux arrête-croisés.*)

William G. Rawbone and Joseph L. Rawbone, Toronto, Ont., 14th June, 1880; for 5 years.

Claim—1st. Sections C C₁ and the spring bolt D, said sections being fastened to the upper and lower sashes of a window; 2nd. The combination with the recessed sections C₁, provided with the bevelled face of the spring bolt D, provided with a rounded head; 3rd. The combination with the casing, bolt, spring and knob, of the screw E; 4th. Sections C C₂ bevelled on their adjoining faces in opposite directions.

No. 11,374. Improvement in Newspaper Holders. (*Perfectionnements aux serre-papiers-nouvelles.*)

William C. Fitch and Charles Day, Sacramento, Cal., U. S., 14th June, 1880; for 5 years.

Claim—1st. The paper holder composed of the sticks b b b₁ b₂, in combination with the flexible connections c c₁.

List of Patents issued up to 16th August, 1880, but not yet Officially published in the Patent Office Record.

No. 11,511. W. J. Gurd, Sarnia, O., "Interest and Time Calculator," Patent dated 19th July, 1880.

No. 11,512. G. B. Thomas, Point Pleasant, Virg. U. S. A., "Iron Roofing," 19th July, 1880.

No. 11,513. C. Felhoen, New York U. S. A., "Blasting Powder," 19th July, 1880.

No. 11,514. S. Day, Otterville, O., (Assignee of C. Graham,) Sturges, Mich., U. S. A., "Wagon Rack," 19th July 1880.

No. 11,515. A. Bartlett, Chatham, O., "Car Coupler," 19th July, 1880.

No. 11,516. D. Knowlton, Brantford, O., "Spring Bed Bottom," 19th July, 1880.

No. 11,517. F. S. Gilbert, Oshawa, O., "Wrench," 19th July, 1880.

No. 11,518. F. L. Pope, Elizabeth City, N. J., U. S. A., "Electro Signalling Apparatus," (Extension of Patent No. 5011), 19th July, 1880.

No. 11,519. A. J. Lookie, H. A. Hurd, and T. H. Titus, Rochester, N. Y., U. S. A., "Horse Hoof Pad," 19th July, 1880.

No. 11,520. T. A. Edison, Menlo Park, N. J., U. S. A., "Electric Lamp," 18th July, 1880.

No. 11,521. E. Hely, Dublin, Ireland, "Printing Machine," (Extension of Patent No. 5,020, 19th July, 1880.

No. 11,522. E. Card, Pawtucket, R. I., U. S. A., "Grate," 19th July, 1880.

No. 11,523. J. A. Rouse, Et. Berkshire, Ver., U. S. A., "Horse Power Link," 19th July, 1880.

No. 11,524. G. B. Cornell, Chicago, Ill., U. S. A., "Bung Bush," 19th July, 1880.

No. 11,525. A. Cary, New York, U. S. A., "Wire Fence Barbing Machine," 19th July, 1880.

No. 11,526. H. H. Brown, Ladaga, Wis., U. S. A., "Sad Iron Heater," 19th July, 1880.

No. 11,527. T. A. Edison, Menlo Park, N. J., U. S. A., "Electric System for Light Heat or Power," 19th July, 1880.

No. 11,528. G. Ramsdell, Oswego, N. Y., U. S. A., "Wood and Oil Apparatus," 19th July, 1880.

No. 11,529. W. S. Hanson, Mt. Pleasant, Iowa, U. S. A., "Grain Car," 19th July, 1880.

No. 11,530. M. Bray, Newton, (Assignee of G. Van Horne,) Boston, Mass., U. S. A., "Lacing Hook," 19th July, 1880.

No. 11,531. C. Barnes, Dayton, Ken., U. S. A., "Fire Extinguisher," 19th July, 1880.

No. 11,532. J. A. Osgood, Grantville, Mass., and E. P. Monroe, New York, U. S. A., "Valve Rod Packing Device," 24th July, 1880.

No. 11,533. M. J. Allen, New York, and W. E. Bradley, Frankfort, Ken., U. S. A., "Process of Making Whisky," 24th July.

No. 11,534. T. H. Walsh, New York, U. S. A., "Asphaltum Pipes," 24th July, 1880.

No. 11,535. M. Bray, Newton, (Assignee of G. Van Horne, Boston, Mass., U. S. A., "Lacing Hook," 19th July, 1880.

No. 11,536. G. F. Swift, Chicago, Ill., (Assignee of A. J. Chase, Boston, Mass., U. S. A., "Refrigerator," 19th July, 1880.

No. 11,537. C. Kinney, Windsor, & A. Neville, Hamilton, "Bevelling Gauge," 19th July, 1880.

No. 11,538. R. L. Furnet, Hartland, O., U. S. A., "Hand Hoe," 19th July, 1880.

No. 11,539. J. Stevens, Neenah, Wis., U. S. A., "Grinding Mill," 19th July, 1880.

No. 11,540. G. A. Pierce, Stanstead, Q., (Assignee of M. F. Pierce, Boston, Mass., U. S. A., "Dust Pan," 19th July 1880.

No. 11,541. J. G. Garland, Biddford, Me., U. S. A., "Apparatus for Moistening the Atmosphere," 19th July 1880.

No. 11,542. B. S. Miles, Gray's Summit, Wis., U. S. A., "Stamp Extractor," 19th July 1880.

No. 11,543. J. Stevens, Neenah, Wis., U. S. A., "Grinding Mill," 19th July, 1880.

No. 11,544. W. H. Hannaford, Chicago, Ill., U. S. A., "Boot," 19th July, 1880.

No. 11,545. H. S. Wing, Detroit, Mich., U. S. A., "Carpet Sweeper," 19th July, 1880.

No. 11,546. J. Dempsey, Lewiston, Me. & L. Flagg, Central Falls, R. I., U. S. A., "Metallic Cooler for Journals," 19th July 1880.

No. 11,547. M. A. Steers, Kalamazoo, Mich., U. S. A., "Pillow Sham Holder," 19th July, 1880.

No. 11,548. C. D. Van Allen, Guelph, O., "Churn Dash and Washer," (Extension of Patent No. 5,063,) 19th July, 1880.

No. 11,549. T. J. Gordon, D. H. Bumpus, and W. H. Keeler, Rouseville, Penn., U. S. A., "Clay Process for Decolorizing and refining Petroleum," (Extension of Patent No. 5,035,) 19th July, 1880.

No. 11,550. F. Dodge, B. J. Denton, and J. M. Hart, Oswego, N. Y. O. S. A., "Peat Machine," 19th July, 1880.

No. 11,551. P. R. Dederick, Albany, N. Y., U. S. A., (Assignee of C. G. C. Simpson,) Montreal, Q., "Hay Press," (Extension of Patent No. 982,) 24th July, 1880.

No. 11,552. M. G. Hubbard, jr., Morrestown, Penn., U. S. A., "Grain Binder," 28th July, 1880.