

Patents issued up to 21st March, 1883, Claims and Drawings of which will appear in a subsequent number of the Patent Record.

No. 16,434. G. M. Sargent, Evanston, Ill., "Car brake shoe," 2nd March, 1883.

No. 16,435. The Canada Pulp Company, Limited, Montreal, Que., assignees, "Paper pulp and leather board from bark," 2nd March, 1883.

No. 16,436. The Canada Pulp Company, Limited, Montreal, Que., assignees, "Broad faced bar grinder," 2nd March, 1883.

No. 16,437. F. M. Lechner and J. A. Jeffrey, Columbus, Ohio, "Mining machine," (Ext. of Pat. No. 8492), 2nd March, 1883.

No. 16,438. C. A. Smith, Normalville, Ill., and F. D. Smith, New Carlisle, Ind., "Earth excavator and conveyor," 2nd March, 1883.

No. 16,439. G. W. Fuller, Norwich, Conn., "Dynamo electric machines," 6th March, 1883.

No. 16,440. G. W. Fuller, Norwich, Conn., "Dynamo electric machines," 6th March, 1883.

No. 16,441. J. A. Fleming, Denver, Col., "Post hole diggers," 6th March, 1883.

No. 16,442. R. P. Butchart, Owen Sound, Ont., "Lanterns," 6th March, 1883.

No. 16,443. J. W. Elliot, Toronto, Ont., "Saver," (Ext. of Pat. No. 8504), 6th March, 1883.

No. 16,444. G. L. Putnam, Mount Vernon, N.Y., "Tie fastening," 6th March, 1883.

No. 16,445. M. Holbrook, Eaton, Que., "Stone and root digger," 6th March, 1883.

No. 16,446. A. and D. J. Burkholder, Barton, Ont., "Spring motors," 6th March, 1883.

No. 16,447. D. Groesbeck, J. A. Sterling, C. A. Ball, N.Y., and D. P. Wright, Norwood, Mass., "Spark arresters," 7th March, 1883.

No. 16,448. H. C. Cain, Cleveland, Ohio, "Ice floors for cold storage houses," 7th March, 1883.

No. 16,449. D. G. Wells, Joliet, Ill., "Wire barbing machines," 7th March, 1883.

No. 16,450. J. H. Clinch, Pittsburg, Penn., "Rivetting carriage," 7th March, 1883.

No. 16,451. A. S. Core, Rochester, N.Y., "Cultivator teeth," 7th March, 1883.

No. 16,452. F. Funke, Evansville, Ind., "Marine steam boilers," 7th March, 1883.

No. 16,453. L. D. Minor, N.Y., "Garment clasps," 7th March, 1883.

No. 16,454. W. Vanderlip, Liberty, Ill., "Clothes driers," 7th March, 1883.

No. 16,455. G. W. Fuller, Norwich, Conn., "Dynamo electric machines," 7th March, 1883.

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No. 16,457. G. W. Fuller, Norwich, Conn., "Dynamo electric machines," 7th March, 1883.

No. 16,458. E. W. Anthony, Boston, Mass., "Heating stoves," 7th March, 1883.

No. 16,459. H. T. Johnson, Scio, N.Y., "Telephones," 7th March, 1883.

No. 16,460. W. A. Boland, Boston, Mass., "Apparatus for fastening buttons," 7th March, 1883.

No. 16,461. G. A. Kennedy, Coaticook, Que., "Tubular lanterns," 7th March, 1883.

No. 16,462. C. S. Cooke, N.Y., "Temporary binder for pamphlets," 7th March, 1883.

No. 16,463. The Canada Pulp Company, Limited, Montreal, Que., assignees, "Paper pulp from wood and other material," 7th March, 1883.

No. 16,464. N. S. Woodward, Sherbrooke, Que., assignee, "Automatic fire alarm," (Ext. of Pat. No. 8499), 7th March, 1883.

No. 16,465. R. Fulton and A. De Lano, Detroit, Mich., "Sheathing and roofing for railway cars," 8th March, 1883.

No. 16,466. W. R. Mead, Orossa, Mich., "Medical compounds," 8th March, 1883.

No. 16,467. F. A. Dennett, Milwaukee, Wisc., "Threading attachment for grain binders," 8th March, 1883.

No. 16,468. G. F. Butterfield, Stoneham, Mass., "Air cushions," 8th March, 1883.

No. 16,469. M. C. Cummings, Des Moines, Iowa, "Washing machines," 8th March, 1883.

No. 16,470. G. W. Johnson, Yarmouth, N.S., "Steam pumps," 8th March, 1883.

No. 16,471. G. F. Burkhardt, Boston, Mass., "Apparatus for drying malt," 8th March, 1883.

No. 16,472. J. W. Powers, Winnetka, Ill., "Pumps," 8th March, 1883.

No. 16,473. R. Butterworth and R. S. Bolles, Nashville, Tenn., "Vehicle top trimming," 8th March, 1883.

No. 16,474. R. D. Burr, Kingsborough, N.Y., "Gloves," 8th March, 1883.

No. 16,475. R. O. donk, N.Y., "Pocket coat hooks," 8th March, 1883.

No. 16,476. C. H. Hall and R. P. Pattison, Chicago, Ill., "Hand lozenge cutter," 8th March, 1883.

No. 16,477. L. J. Stanton, F. D. Pierce and J. Stanton, Millbrook, Mich., "Harrow teeth," 8th March, 1883.

No. 16,478. The Minneapolis Harvester Works, Minneapolis, Min., assignees, "Grain binder," 9th March, 1883.

No. 16,479. The Massey Manufacturing Company, Toronto, Ont., assignees, "Horse rakes," 9th March, 1883.

No. 16,480. C. Kellogg and F. W. Cornell, Kalamazoo, Mich., "Stock cars," 9th March, 1883.

No. 16,481. R. Williams, Boston, Mass., "Sawing barrel hoops from poles," 9th March, 1883.

No. 16,482. W. J. Lloyd, W. W. Supplee and C. Walton, Philadelphia, Penn., assignees, "Lawn mower," (Ext. of Patent No. 9576), 9th March, 1883.

No. 16,483. E. N. Porter, Morrisville, and L. G. Burnham, Burlington, Vt., "Bracket piece for screen frames," (Ext. of Patent No. 13,385), 9th March, 1883.

No. 16,484. E. N. Porter, Morrisville, and L. G. Burnham, Burlington, Vt., "Bracket piece for screen frames," (Ext. of Patent No. 13,385), 10th March, 1883.

No. 16,485. J. J. Pennington, Henryville, Tenn., "Flying machine," (Ext. of Patent No. 8661), 10th March, 1883.

No. 16,486. The American Freight Car Heating Company, Portland, Me., assignees, "Apparatus for heating freight cars," 10th March, 1883.

No. 16,487. A. F. Collette, St. Luc, J. C. Urie, Chambly, Que., "Candle apparatus," (Ext. of Patent No. 9679), 10th March, 1883.

No. 16,488. O. J. Mitchell, Ingersoll, Ont., assignee, "Spring bed and mattress," (Ext. of Patent No. 8540), 12th March, 1883.

No. 16,489. G. A. Curtee, Hopkinton, New Hampshire, "Compound for preserving eggs," (Ext. of Patent No. 16,131), 12th March, 1883.

No. 16,490. G. A. Curtee, Hopkinton, New Hampshire, "Compound for preserving eggs," (Ext. of Patent No. 16,131), 12th March, 1883.

No. 16,491. L. B. Morgan and J. E. Wayt, West Liberty, Ohio, "Bread raising ovens," 12th March, 1883.

No. 16,492. J. Bartlett, O-hawa, Ont., "Seed and grain drill distributor," (Re-issue of Patent No. 16,087), 12th March, 1883.

No. 16,493. F. G. Kay, in Trust, Allegheny, Penn., "Car stoves," 12th March, 1883.

No. 16,494. W. J. Copp, Hamilton, Ont., "Duplex and reversible stove shelf," (Ext. of Patent No. 8562), 12th March, 1883.

No. 16,495. W. Thomson, Toronto, Ont., assignee, "Sash regulator," (Ext. of Patent No. 8544), 12th March, 1883.

No. 16,496. W. P. Chisholm, Chicago, Ill., "Wire barbing machine," 13th March, 1883.

No. 16,497. B. G. Dewe and W. L. Walker, Trenton, Ohio, "Iron fence," 13th March, 1883.

No. 16,498. P. M. Daignault, Montreal, Que., "Process for dressing and dyeing furs, wool, hair, and raw hides," 14th March, 1883.

No. 16,499. J. S. Sellon and E. Voelckmar, Hatton Garden, Eng., "Secondary batteries," 15th March, 1883.

No. 16,500. C. Ellery, Albany, N.Y., "Paper feeding device for printing presses," 15th March, 1883.

No. 16,501. T. Castle, Montreal, Que., "Permanent brick staining color," 15th March, 1883.

No. 16,502. P. Gendron, Toledo, Ohio, "Vehicle wheels," 15th March, 1883.

No. 16,503. O. D. Orvis, New York, N.Y., "Steam boiler and other furnaces," 15th March, 1883.

No. 16,504. C. A. Gregory, Montreal, Que., "Fire escape ladders," 15th March, 1883.

No. 16,505. M. B. Perine, Conestogo, Ont., F. Howard, Etchemin, Que., "Anti moth bat," 15th March, 1883.

No. 16,506. T. J. Vinton, Holly, Mich., "Fire escape," 15th March, 1883.

No. 16,507. G. S. Foster and A. C. Holt, Concord, N. H., "Hoop cutting machine," 15th March, 1883.

No. 16,508. C. R. Irvine, Deseronto, Ont., "Contrivance for unloading hay and grain," 17th March, 1883.

No. 16,509. S. S. Lawrence, West Sheffield, Que., "Wooden casks," 17th March, 1883.

No. 16,510. J. G. Winter, Detroit, Mich., "Gang circular saw mill," 17th March, 1883.

No. 16,511. W. Hewitt, London, Ont., "Machine for forming bars on flat strips," 17th March, 1883.

No. 16,512. W. W. Jackson, Chicago, Ill., "Faneet attachment or cask stoppers," 17th March, 1883.

No. 16,513. W. E. Parmenter, Hamilton, Ont., "Churns," 17th March, 1883.

No. 16,514. F. Prinz, Milwaukee, Wisc., "Dust Collectors for flour mills," 17th March, 1883.

No. 16,515. N. Lacerte, Lewis, Que., "Art of treating and curing Diptheria and other throat diseases," 17th March, 1883.

No. 16,516. C. H. Roberts, Lloyd, N.Y., "Preserving ensilage in silos," 17th March, 1883.

No. 16,517. A. L. Pratt, Kalamazoo, Mich., "Temporary binders," 17th March, 1883.