

means of the flexible ears; 2nd. The combination of two jaws, flexible ears projecting from the edges of the shanks of said jaws, a spring placed between the jaws and held in position by the flexible ears and hooks formed on the shank of one of said jaws; 3rd. The combination of two jaws, flexible ears projecting from the edges of the shanks of said jaws, a spring placed between the jaws and held in position by the flexible ears, hooks formed on the shank of one jaw and a spring clamp formed on the shank of the other jaw, the whole being constructed of three pieces.

No. 10,337. Improvements on Bottle Stoppers.

(*Perfectionnements aux bouchons des bouteilles.*)

August Peterson, (Assignee of Charles G. Hutchinson.) Chicago, Ill., U. S. 7th August, 1879, for 5 years.

Claim.—1st. In combination with the neck of a bottle, a laterally yield-

ing spring applied to a plug or stopper adapted to close the lower end of the neck, when the said spring and stopper are adjustable vertically together, and the spring is fitted to the neck and adapted to suspend the plug or stopper alternately in its open and closed position; 2nd. The combination of the plug B, the laterally yielding and self-suspending spring C and a bottle having a contracted neck.

No. 10,338. Improvements on Churns.

(*Perfectionnements aux barattes.*)

George W. Barton, Unidilla, Mich., U. S. 13th August, 1879, for 10 years

Claim.—A table A, having opening K and provided with fly-wheel B gear G, pinion H, crank J, wrist-pin D, feed-pin E, guide E and churn dash F.

List of Patents issued up to 24th September, 1879, but not yet Officially published in the Patent Office Record.

No. 10,390. J. W. Morgenseier, Sheboygan, Wis., U. S. A., "Hinge," August 27th, 1879.

No. 10,391. B. F. Penney, Dedham, Me., U. S. A., "Shingle Machine," August 27th, 1879.

No. 10,392. E. P. Carter, Arcade, N. Y., U. S. A., "Improved Waggon and Waggon Springs," August 27th, 1879.

No. 10,393. W. W. Grier and H. Barr, Hulton, Penn., U. S. A., "Fifth Wheel for Vehicles," August 29th, 1879.

No. 10,394. W. Hadden, New York, N. Y., U. S. A., "District Telegraph Signalling Apparatus," August 29th, 1879.

No. 10,395. M. G. Carey, Greensborough, Penn., U. S. A., "Process and Apparatus for Aging Liquors," August 29th, 1879.

No. 10,396. A. Macfie, Chatham, Ont., "Shelf Supporter," August 29th, 1879.

No. 10,397. G. S. Rice, Chicago, Ill., U. S. A., "Music Teaching Chart," August 19th, 1879.

No. 10,398. L. H. Baker, Fairfield, Ill., U. S. A., "Sliding Box and Valve Combined," August 29th, 1879.

No. 10,399. J. Simpson, York Township, Ont., "Land Roller," August 29th, 1879.

No. 10,400. J. V. Taylor, Lansingburgh, N. Y., U. S. A., "Cake Griddle," August 29th, 1879.

No. 10,401. J. Keats, Wood Green, England, "Sewing Machinery and Caps used therewith," August 29th, 1879.

No. 10,402. E. M. Ball, Hatley, and W. Sleeper, Coaticooke, Que., "Stove Pipe Screwing Machine," August 29th, 1879.

No. 10,403. E. Moore, Portland, Me., and A. R. Wright, Geneva, N. Y., U. S. A., "Railway Derrick," August 30th, 1879.

No. 10,404. E. Moore, Portland, Me., and A. R. Wright, Geneva, N. Y., U. S. A., "Concrete Skips," August 30th, 1879.

No. 10,405. P. K. Dederick, Albany, N. Y., U. S. A., "Horse Engine," (Extension of Patent No. 3,900), August 30th, 1879.

No. 10,406. B. F. Fitch, LaCrosse, and C. H. Masters, Sparta, Wis., U. S. A., "Water Feeding Device for Boilers," August 30th, 1879.

No. 10,407. S. E. St. O. Chapleau, Ottawa, Ont., "Railway Nut Lock," September 2nd, 1879.

No. 10,408. H. Webb, Rockport, Mass., U. S. A., "Fish Trap," September 2nd, 1879.

No. 10,409. C. Bentley, Dresden, Ont., "Plow," September 2nd, 1879.

No. 10,410. S. H. Short, Columbus, Ohio, U. S. A., "Electric Telephone," September 2nd, 1879.

No. 10,411. S. Y. Love, Philadelphia, Penn., U. S. A., "Sewing Machine Attachment," September 2nd, 1879.

No. 10,412. G. Mullin, Hullett, Ont., "Elevator and Bag Holder," September 2nd, 1879.

No. 10,413. B. H. Skoyles, Odessa, Ont., "Bolting and Crushing Reel," September 2nd, 1879.

No. 10,414. W. Metcalf, Toledo, Ohio, U. S. A., "Key Fastener," September 2nd, 1879.

No. 10,415. J. F. Avery, Halifax, N. S., "Composition for the Relief of Ear-ache," September 2nd, 1879.

No. 10,416. G. M. Phelps, Brooklyn, N. Y., U. S. A., "Electric Telephone," September 2nd, 1879.

No. 10,417. E. A. C. Pew, Welland, Ont., (Assignee of W. J. Abrich, Elkton, Md., U. S. A.), "Roasting and Baking Pan," September 3rd, 1879.

No. 10,418. E. T. Starr, Philadelphia, Penn., U. S. A., "Dental Engine," September 3rd, 1879.

No. 10,419. J. B. Burbank and J. W. Atkins, Danville, Que., "Butter Worker," September 3rd, 1879.

No. 10,420. H. S. Parmelee, New Haven, Conn., U. S. A., "Fire Extinguisher," September 3rd, 1879.

No. 10,421. W. W. Huntley, A. P. Hulcomb, and A. Heine, Silver Creek, N. Y., U. S. A., "Means for Cleansing the Meshes of Bolting Screens," September 3rd, 1879.

No. 10,422. H. P. Ballou, Needham, Mass., U. S. A., "Knitting Machine," September 3rd, 1879.

No. 10,423. W. Marks, Hopewell, N. Y., U. S. A., "Fertilizer Distributor," September 3rd, 1879.

No. 10,424. G. Gilmore Cote St. Paul, Q. e., (Assignee of W. Tucker, Fiskdale, Mass., U. S. A.), "Apparatus for Dropping Cuts of Augers and Auger Bits," (Extension of Patent No. 3993), 6th September, 1879.

No. 10,425. J. J. Thornycroft, Chiswick, England, "Propeller," (Extension of Patent No. 3968), 6th September, 1879.

No. 10,426. J. A. Quesnel, Arthabaskaville, Que., "Railway Nut Lock," 6th September, 1879.

No. 10,427. E. Lavigne, Quebec, Que., "Swing," (Extension of Patent No. 37), 8th September, 1879.

No. 10,428. C. C. Holton, (Assignee of E. G. Goad), Chicago, Ill., U. S. A., "Steam Generating and Heating Device for Boilers," 8th September, 1879.

No. 10,429. J. C. Covert, Troy, N. Y., U. S. A., "Rope Clamp," 8th September, 1879.

No. 10,430. O. H. Goodwin, San Francisco, Cal., U. S. A., "Music Leaf Turner," 8th September, 1879.

No. 10,431. W. S. Wilson, Sunderland, England, "Galvanic Cells or Batteries," 8th September, 1879.

No. 10,432. A. P. Gotham, Chicago, Ill., U. S. A., "Artificial Fuel," 8th September, 1879.

No. 10,433. E. F. Pfeuger, Akron, Ohio, U. S. A., "Drip Basins for Barrels, &c.," 8th September, 1879.

No. 10,434. C. Friedeborn, Clare, Mich., U. S. A., "Churn Dasher," 8th September, 1879.

No. 10,435. H. Doetsch, London, England, "Process for Extracting Copper from its Ore," 8th September, 1879.

No. 10,436. H. Doetsch, London, England, "Process for Extracting Copper from its Ore," 8th September, 1879.

No. 10,437. R. Hay, Mineral Point, Wis., U. S. A., "Draw Bar for Locomotive Tenders," 10th September, 1879.

No. 10,438. A. Burgess, Oswego, N. Y., U. S. A., "Magazine Fire Arm," 10th September, 1879.

No. 10,439. J. Moreau, Jr., Windsor Mills, Que., "Dumb Stove," 10th September, 1879.

No. 10,440. T. B. & T. R. Jordan, London, England, "Pneumatic Hand Power Rock Drill," 10th September, 1879.

No. 10,441. F. Brown, Haverhill, Mass., U. S. A., "Valve," 10th September, 1879.

No. 10,442. A. Burgess, Oswego, N. Y., U. S. A., "Magazine Gun," 10th September, 1879.

No. 10,443. M. Covel, Chicago, Ill., U. S. A., "Saw Sharpening Machine," 12th September, 1879.

No. 10,444. E. Prescott, Hampton Falls, N. H., and G. W. Gregory, Boston, Mass., U. S. A., "Carriage Jack," 12th September, 1879.

No. 10,445. J. W. D. McDonald, Banbridge, England, "Folding Boat," 12th September, 1879.

No. 10,446. G. Bischof, London, England, "Process for Preserving Butter, &c.," 12th September, 1879.

No. 10,447. T. J. Clark, J. Forrest, and J. G. Short, Woodstock, Ont., (Assignees of G. W. Allen, Creston, Ill., U. S. A.), "Barbed Wire Fence," 12th September, 1879.

No. 10,448. W. B. Mountney, Chicago, Ill., U. S. A., "Diaphragm Meter," 12th September, 1879.

No. 10,449. D. W. Bovee, Richland Centre, Wis., U. S. A., "Hay Rake and Loader," 12th September, 1879.

No. 10,450. P. Arbagast and T. J. McTigue, Pittsburgh, Penn., U. S. A., "Underground Telegraph," 12th September, 1879.

No. 10,451. A. T. Cross, Providence, R. I., U. S. A., "Stylographic Fountain Pen," 12th September, 1879.

No. 10,452. A. F. Shafer, London, Ont., "Land Roller," (Extension of Patent No. 3,848), 15th September, 1879.

No. 10,453. A. Edwards, Philadelphia, Penn., U. S. A., "Sewer Gas Seal Joint," 15th September, 1879.

No. 10,454. J. B. Burland, Montreal, Que. (Assignee of C. J. Tinnerbalm, Brooklyn, N. Y., U. S. A.), "Hair Renovating Compound," 15th September, 1879.

No. 10,455. W. D. C. Pattysen and W. Farwell, Sherbrooke, Que., "Vehicle Brake," 15th September, 1879.