



[Reported Officially for the Scientific American.]

LIST OF PATENT CLAIMS

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FOR THE WEEK ENDING MAY 6, 1856.

BRECH-LOADING GUNS—Edward Lindner, of New York City: I claim, first, the application of a lever projecting partly into the gun barrel, or of a piston forming part of the barrel, in such a manner that the passage of the ball through the gun barrel, or the explosive power of the powder shall act upon the same, pressing the same outwards, for the purpose of communicating motion to a rod situated below the gun barrel.
Secondly, in the manner of disengaging and opening the breech by a motion obtained either by the passage of the cartridge through the gun barrel, or by the action of the expansive power of the powder, when the gun is fired off.
Thirdly, I claim the box, H, containing asbestos, or its equivalent, for the purpose of cleaning the rubbing surface of the breech in motion upwards.
Fourthly, I claim the arrangement of packing the axis of the breech against the face of the gun nipple frame, in the manner and for the purposes specified.
Fifthly, I claim the arrangement of the vent or priming hole from the gun nipple to the cartridge chamber in the breech, in the manner as described.
Sixthly, filling the space in the recess, s, with asbestos, or its equivalent, substantially as described for the purpose specified.

REPEATING FIRE-ARMS—George Leonard, of Shrewsbury, Mass.: I do not claim the invention of a central screw, by which several concentric barrels may be attached to and disconnected from a chamber with a proper number of bores.
But I claim the invention in fire-arms of an expedient for connecting several concentric barrels to a chamber having an equal number of bores, and for partially, but not wholly, disconnecting the same, for the purpose of loading, cleaning, &c., consisting of a combination of a central screw with a spindle, having a projecting head, and a bore of two different diameters in the center of the concentric barrels, the front part of the bore being larger than the back part, and of the diameter of the projecting head, and the back part of the bore being smaller than the front part, and of the diameter of the spindle. The whole to be constructed substantially as described, but independent of any accidental properties.
I do not claim the invention of a revolving hammer for fire arms of any peculiar construction, or the invention of any device or expedient to regulate its motions, neither do I claim the invention in fire-arms of several concentric barrels having anything special or peculiar in their construction.
I claim the invention in fire-arms of a combination of several concentric barrels with a revolving hammer for their successive discharge, the reciprocating and revolving motions of which hammer are governed and guided by straight and oblique grooves sunk in its surface, each kind of groove to be equal in number to the barrels. The whole to be constructed as described, but independent of any accidental properties.
I do not claim the invention in fire-arms of a rear having a thumb-piece projecting beyond the breech or stock, so that the fire-arm may be unlocked by pressing on said thumb-piece or arm, and easing down the hammer.
I claim the invention in fire-arms of a combination of a cocking-lever, trigger, and rear with a thumb-piece, the combination to have such characteristics that the fire-arm can be unlocked without discharging, and by pressing said thumb-piece and easing down said cocking-lever, the whole to be constructed substantially as described, but independent of any accidental properties.

FIGURING AND POLISHING MOROCCO—Eugene L. Norton, of Charlestown, Mass.: I claim the rotating tool for polishing or figuring leather, when such tool has imparted to it a greater velocity than that due to rolling simply, in the manner and for the purposes specified.
GAS BURNERS—James Neal, of Boston, Mass.: I do not claim providing a gas burner with filter or strainer arranged within it, nor the application of felt cloth or other fibrous material or fabric as a strainer.
But what I do claim as my improvement is constructing the burner not only with a covered cup or stand reservoir, C, and a discharging pipe, h, extending into said reservoir, as described, but with one or more passages, b b i, for the gas to flow around and into the cup, C, and through its loose sand or straining contents, as specified, my improvement enabling me to employ powdered quartz or a loose mineral matter or substance as a filter or strainer, and thereby attain advantages as stated.

SAWING MARBLE KERFS OF VARYING ANGLES—Samuel Nickelson, of Pulaski, Tenn.: I claim the adjustable or sliding bars, H, attached to the bars, E, as shown, when said bars are curved or bent so as to form saw frame guides in combination with the pivoted pitmans, L, L, and eccentrics, K, K, on the shafts, F, F, whereby by the saw frames and the devices for drawing them are all attached to and move with the bars, H, thereby allowing the saw to be adjusted more or less angularly with each, and at required distances apart with the greatest facility.
ARTIFICIAL STONE—Robert Neisch, of New York City: I do not claim the use of alum solution with commonly calcined plaster of Paris, or gypsum, as I am aware that such mixture has before been used.
But I claim the preparation of artificial stone by treating plaster of Paris previously calcined together with sulphuric acid with solutions of alum and carbonate of ammonia, in the manner substantially as described.

OVENS—Jesse Ohmert, of Mount Morris, Ill.: I claim the arrangement of the flues, a, e, e, and space, l, relatively with the fire chamber, C, and oven, F, as described for the purpose specified.
LUBRICATING GRIST MILL SPINDLES—Clayton Brown, Sen., of Richmond, Ind.: I claim the oil chamber, D, with the tube, E, attached, the tube being provided with stop cock, F, and the chamber with a piston or follower, G, the inner end of the tube passing through the bush, B, substantially as described for the purposes specified.
ROTARY SHINGLE MACHINE—C. F. Beverly, of Lancaster, Ohio: I do not claim the knives or cutters, E, E, secured to the wheel, A, irrespective of the manner of attaching said knives or cutters to the wheel.
But I claim securing the knives or cutters, E, E, to the wheel or disk, A, by means of the bolts, i, i, which pass through the knives or cutters near their cutting edges, and through the ears, h, at the ends of the plates, e, the heads of said bolts being beveled, and employing the screws, j, for securing the ears to the bars, e, attached to the wheel or disk, and adjusting the knives or cutters by means of the screws, k, k, which pass through the bars, e, substantially as shown and described.
I further claim the bar, H, attached to the elastic bars, J, J, by rods, b, which work in the slots, g, g, at the ends of the platform or bed, B, the lower end of the bars, J, being connected to the rock shaft, K, having a treadle, L, attached to it, and against which treadle a spring, M, acts for the purpose of feeding and properly presenting the block to the knives or cutters as set forth.

GUIDES OR CHUTES FOR TURBINE WHEELS—Jos. Bastion, of Theresa, N. Y.: I claim the stationary conical center, B, in combination with the adjustable parts, D, E, F, and supporters, C, C, for the purpose of graduating the quantity of water discharged, and giving the desired direction to the same, the whole being constructed and arranged as described.
MOLD PRESS FOR HORSE COLLARS—Melvin C. Chamberlain, of Sheldon, N. Y.: I claim giving shape and form to horse collars by means of a mold press, constructed and operated substantially as described.

WAGON TONGUE—J. T. Baughman, of Frazeyburgh, Ohio: I claim constructing the tongue in two separate parts, A, and B.
Second, I claim the arrangement and combination of the hounds, J, J, and S, S, for the purpose of connecting the tongues, A, and B, together substantially in the manner and for the purpose set forth.

VICE—Charles Buss, of Marlboro', N. H.: First, I claim making the movable jaws, A, A, with the parts, B, B, extending beyond the joints so as to be operated by the wedge, G, or its equivalent as set forth.
Second, I claim making both jaws movable, so as to open equally, and hold the various sizes on a line with the center of the whole tool, as described.

SELF-HEATING SMOOTHING IRONS—G. W. Bishop, of Brooklyn, N. Y.: I claim the tubular pipes, a, placed one at the front and the other at the back of the fire chamber or box, A, and the openings or holes, c, at the sides of said chamber or box, arranged substantially as shown and for the purpose specified.
I further claim the hollow projection, B, attached to the fire chamber or box, A, and communicating with said chamber or box by an aperture, d, and having a tube, C, connected with it, which communicates with the external air at one side of the fire chamber or box, A, substantially as and for the purpose set forth.

LUBRICATOR—Abel Brearer, of Saugatuck, Conn.: I do not claim the application of a piston or syringe to a grease cock, for forcing the grease against a pressure of steam.
But I claim the attachment of the syringe directly to the plug of the cock, substantially as described.

DOUBLE PANEL SHUTTERS—Charles S. Bruff, of Baltimore, Md.: I claim the lever, D, arranged as described, nor do I claim the lever, D, arranged as described, nor do I claim the use of the wedge, L, as a means of forcing the lever down and securing it to its place, as such an arrangement is already known.
But I claim the peculiar construction of the wedge, L, having a convenient handle, M, and pawl, Q, attached to it, which pawl plays into a ratchet, N, made in the turn table or bed plate, A, as described.

PARING APPLES—John D. Brown, of Cincinnati, O.: I claim the projections on the impelling wheels, J, and frame, G, when the wheel, J, is hung on a center within the circle of action of the projections and sufficiently eccentric to the frame, G, for the escape of one projection over the other as shown, and for the purpose specified.

HAND CORN PLANTERS—Reinhold Wocklen, of Jersey City, N. J.: I claim the employment of one or more covering plates, E, E, applied in connection with the seed box or tube and the plunger, and operating substantially as set forth, for the purpose of earth and deposit it over the corn which has been planted.

SAWING FELLSIES—S. and Wm. H. Book, of Rushville, Ohio: I claim having the saw by means of adjustable arms to a horizontal shaft or axle, thereby allowing the saw to descend by its weight through the circular path forming the curvature of the filly, substantially as described.

MAKING PAPER FROM STRAW—Wm. Clark, of Dayton, Ohio: I do not claim the use of lime or other alkalis used in the preparation of vegetable material used in the manufacture of paper.
But I claim the boiling of coal tar in with the straw or other vegetable material for the manufacture of paper, in the manner and form set forth, and for other similar purposes, or purposes substantially the same.

HYDRANT—C. J. Cowperthwaite, of Philadelphia, Pa.: I claim, first, the employment or use of the case or protector, J, so connected with the valve rod, G, that the valve, F, will be opened when the case or protector, J, is moved aside to expose the nozzle, C, and the valve closed when the case or protector is moved over the nozzle.
Second, I claim the slide valve, F, arranged or applied to the cistern, E, as shown, viz., the valve being fitted within the cistern and connected with the rod, G, through the waste water passage, a, whereby the valve is made to work watertight, and the use of a stuffing box and packing avoided.
Third, I claim securing the cistern, E, with the pipe, D, and valve, F, attached within the case, A, by means of rod, M, as shown, whereby the above parts may be readily detached from the case and secured within it.

LARD LAMPS—Samuel Davis, of New Holland, Pa.: I do not claim a tube, or a feeder with apertures.
But I claim a tube with a cone-shaped feeder and lard heater in two segments, to admit of a double wick, with its apertures and the aperture, F, in the stem, E, all in combination, substantially as described and for the purposes set forth.

SPLITTING WOOD—Charles Day, of Lancaster, N. Y., and Alanson D. Lord, of Bethany, N. Y., assignors to Chas. Day, aforesaid: I do not claim the wheel and cams as my invention.
But I claim the particular application of the axes raised in the manner set forth, for the purpose of splitting wood.

SELF-REGULATED WINDMILL—Albert G. Field, of Quincy, Ill.: I claim hanging the sails, G, G', on arbors or spindles, F, substantially as shown, and having the weights, I, attached to the cranks, b, of the arbors or spindles by cords, C, having buttons, h, upon them, as described for the purposes specified.
I further claim raising the weights, I, by means of the cords, f, attached to the weights, I, and shaft or pin, J, arranged substantially as shown and described.

ROAD SCRAPER—John Gustine and J. M. Rankin, of Lewistown, Ill.: I claim the beam, E, sliding through bands, H, H, upon the tongue, B, attached by the chains, D, to the scraper, and operated and made fast by withdrawing or inserting the pin, G, or its equivalent, the whole constructed in the manner and for the purposes substantially as set forth.

POTATO DIGGERS—Abram Heulings, of Philadelphia, Pa.: I disclaim all systems of teeth or brushes which have their radial positions upon revolving carriers at the time of action, whether they be upon an endless band or on a cylinder, as in Schaffer's patent of 1853, as their action is altogether different from that of my construction.
But I claim the combination of the excavator, E, and inclined open bed, e, with the series of rakes, R', so connected with the endless carrier that the rake teeth will be projected to the front of the excavator, at, or nearly at a right angle to its surface, and have a motion of translation along the bottom of the same previous to reaching the inclined bed, the arrangement and operation being substantially as and for the purposes set forth.

ELASTIC INDIA RUBBER CLOTH—Nathaniel Hayward, of Colchester, Conn.: I do not claim the elastic fabrics usually employed in shirred coats, made of threads or strips of rubber combined with cloth.
Nor do I claim what are commonly called woolen elastic goods; nor do I claim the mere union of cloth with india rubber, for this has been done in various ways, without producing an elastic fabric.
But I claim the producing an elastic fabric of uniform strength, by uniting a sheet of rubber with threads of cloth, thin, coated on one side with a vulcanized compound of rubber, the sheet of rubber before it is united with the sheets of cloth being, in the modes substantially as set forth, so prepared that the central part of it is completely vulcanized while the surfaces are not.

BAGASSE FURNACES—Abraham Hager, of Baton Rouge, La., and Angus Allyn, of New Orleans, La.: We claim the application to bagasse furnaces of a skeleton arch, made and arranged as described, which will retard the bagasse in falling direct on such portions of the fuel in a state of combustion, or in any other mode substantially the same, which will produce the same effect.

FURNACES FOR SMELTING IRON—T. H. Powers, of Wyocena, Wis.: I claim so arranging the pipe, 2, 2, in connection with the combustion chamber and stock, as described, that the air passing through the pipe shall be heated and discharged, in the manner and for the purpose set forth.

GUM ELASTIC CLOTH—H. G. Tyer, of Ballard Vale, Mass., and John Helm, of New Brunswick, N. J.: Antedated Jan. 9, 1856: We do not claim the weaving of cloth woven with the threads of the web diagonally to the threads of the warp, for that was patented by John Healey on the 18th Dec. 1855; nor do we claim the stretching of cloth, so that the threads of the web while held in the stretched condition shall stand diagonally to the threads of the warp.
Nor do we claim, generally the cementing of threads or sheets of rubber between two pieces of cloth, so stretched—nor do we claim any elastic fabric consisting of two pieces of stretched cloth, united in whole or in part by vulcanizable materials.
We claim as our new manufacture an elastic fabric composed of two pieces of cloth either woven with the threads of the web in a diagonal position to the threads of the warp, or of common cloth stretched so as to force the threads in such relative diagonal position, combined and cemented together, and exclusively by a vulcanized compound of india rubber or gutta serena, the two pieces of cloth being first united by the vulcanized compound, and the compound being vulcanized after the union, substantially as set forth.

FELTED YARNS—M. A. Johnson, of Lowell, Mass.: I do not claim the use of an endless apron, draw rolls, twist, belt, reel, or self-adjusting belt, each being in itself old and well known.
But I claim the arrangement of the steam rubber, R, in relation to and in combination with the endless apron, y, y, constructed and operating substantially in the manner described.

DUMPING SCRAPER—M. S. Kahle, of Lexington, Va.: I claim so attaching the body of the scraper permanently to a butt axle, supported in a pair of wheels, as that said body may be dumped and returned back to its original position, and ready for its next load, without stopping the horses or changing their direction, substantially as described.

WASHING MACHINES—J. T. King, of New York City: I claim the construction of a rotary cylinder, in connection with internal and external pipes, arranged in such a manner that through said pipes steam can always be let into the lower part of the cylinder, and escape at the top while the cylinder is in motion or stationary, and that by the same arrangement hot water, cold water, or steam can be let into the cylinder at the top, and escape at the bottom, while said cylinder is in motion or stationary.

SAVING CLOVER SEED—M. S. Kahle, of Lexington, Va.: I claim, in combination with a gathering and conveying apparatus, such as described, the rubber and meshed wire concave, for separating and throwing out the grass, leaves, weeds, and other impurities, from the heads, pods, &c., &c., passing the latter to the thrashing cylinder, to be blown, and a screen underneath them, substantially as set forth for the purpose specified.

HANGING GATES, DOORS, &c.—Samuel Oberholzer, of Terre Hill, Pa.: The ratchet bar, the pinion, the ratchet wheel, and the pawl, I am aware, have been combined with each other previously, in an adjustable upper ring for a gate, and therefore I do not claim such combination.
But I claim the arrangement of the pawl, b, and pawl holder, c, with each other and with the levers, f, g, the ratchet wheel, a, the pinion, k, and the rack bar, h, substantially in the manner and for the purpose set forth.

COOKING APPARATUS—George Pierce, of New York City: I claim the employment of the double oven, arranged and combined with the roasting apparatus, substantially as set forth and for the purposes described.

BARREL HEADS—N. W. Robinson, of Keesville, N. Y.: I claim, first, the peculiar construction of the clamp, k, as shown and described, viz., said clamp being formed of a ring, e, having segments, d, attached to its under side by set screws, g, placed between the upper surface of the segments and under surface of the ring, by which construction the clamp may be enlarged or contracted so as to suit different sized barrel heads.
Second, I claim the stationary bed piece, J, and rotary planing disk, E, in combination with the sliding clamp, O, for the purpose of allowing said planing disk to plane and chamfer the whole surface of one side of the barrel head and then support it in its position while being chamfered and planed on the other side.

EXTRACTING STUMPS—S. W. Ruggles, of Fitchburgh, Mass.: I claim the lever frame, C, operated by the lever, G, pawls, f, h, ratchet, F, strap, E, when the above parts are attached to the sled, A, and arranged as shown, and used in connection with the frame or strut, I, for the purpose specified.

EXTENSION WAGONS—E. D. Rosencrantz, of New York City: I claim the employment of the slide bars, b, c, constructed as described, when used with the bars, K, K, in the manner and for the purposes substantially as set forth.

COMPOSITIONS FOR STUFFING LEATHER—John Rose, of Newark, N. J.: Being well aware that other meal than rye, and other oil or fatty matter than cod, if combined with the wax, rosin, and molasses, can be used, and would produce nearly the same effects, I therefore do not claim the rye meal, or the cod oil, exclusively, nor the precise proportions specified.
I claim softening the leather by stuffing it with a compound made of paste, of rye or other meal, beeswax, rosin, molasses, and oil or other fatty matter, in the proportions as specified.

HOOP MACHINE—James and Sylvester Sawyer, of Fitchburgh, Mass.: We claim the described combination of the rest, D, and the pressure roll, D, with the hollow faced cutter head, C, operating in the manner substantially as set forth.
Second, we claim the method described of tapering the hoop (the label) by means of the lever, T, spring, t, o, operating in the manner and for the purpose set forth.

DOOR FASTENER—W. H. Smith, of New York City: I claim the use of the screw nut, d, working on the hinged stem, b, as a means of adjustment of the plate, e, e, when employed in combination with the strap, c, c, all operating in the manner and for the purposes substantially as set forth.

HEATING FEED WATER APPARATUS FOR STEAM BOILERS—Thos. Sloane, of St. Louis, Mo.: I claim, first, a vessel separate from the boiler, but communicating both with the steam and water chambers thereof, in which the water previously to its entrance to the boiler is heated by passing in a thin stream, in its upper part, and also by the contact of the steam with the top of the body of water contained therein, substantially as specified.
Second, the arrangement of the purifying vessel, the pipe, D, with its funnel mouth, the internal perforated chamber, G, and the pipes, E and F, substantially as described.

ARTIFICIAL LEGS—Wm. Selpho, of New York City: I claim the semi-cylindrical joint, b, fitted with the pipe, 2, and pin, 3, to connect said joint together and give facility or lubricating the same, in the manner as specified.
I also claim in combination with said semi-cylindrical joint, the elastic cushion, 6, at the ankle joint, for the purposes specified.
I also claim the elastic cushions, 9 and 10, on the upper part of the heel and the lower part of the limb, c, to act in the manner, and for the purposes specified.
I also claim attaching artificial toes of india rubber, to the wooden part of the foot, to act in the manner and for the purposes specified.

SALT EVAPORATORS—Benj. Hood, of Albany, N. Y., and E. P. Monroe, of Charlestown, Mass.: We claim the construction of evaporating apparatus of two concentric rotary cylinders, supplied with liquid, heated and operated substantially as set forth, to effect evaporation from the weaker portion of the liquid, and economize fuel.

SOWING SEED BROADCAST—Enos Stimson, of North Craftsbury, Vt.: I claim the rotating horizontal arm or tube, F, provided with valves, L, at its ends, and used in connection with the adjustable board or plate, M, provided with the same circular recess, e', the above parts being constructed, arranged and operating substantially as shown, for the purpose specified.

LADLING OF MOLTEN GLASS—W. P. Walter and Jacob Green, of Philadelphia, Pa.: We claim the employment of a suspended ladle for facilitating the manufacture of glass, substantially in the manner set forth.

PROPELLERS FOR LIFE BOATS—Geo. W. La Baw, of Jersey City, N. J. (Assignor to himself, Jos. Colton, of New York City, and Howell, of Ewing Township, Pa.) I claim constructing the propellers with blades on both sides, so as to enable the boat to be worked by the same mechanism when either side up, substantially as described.

MARBLE SAWING MACHINES—A. F. Ward, of Louisville, Ky.: I claim suspending the saw frames or sashes' D, D', within the frames, O, K, by means of the chains, a, a, which are attached to rack bars, B, having weights or counterpoises, e, connected to them, the rack bar, B, being connected by pinions, g, with rack bars, G, to which the connecting rods, J, of the saw frames or sashes are attached, substantially as shown for the purpose specified.

SHEEP SHEARS—R. M. Wilder, of Coldwater, Mich.: I do not claim operating the shears by the grasp of the hand, as this has been done.
I claim the rotary cutter, in combination with the spring handle, A, coupling rods, B, levers, C, spring pawls, D, spur wheel, F, and wheels connecting spur wheel with cutter wheel, or equivalent thereof, arranged and operating substantially as and for the purposes set forth.

R. R. CAR SEATS—Geo. Willard, of Boston, Mass. (Assignor to himself and N. W. C. Jameson, of Antrim, N. H.): I claim the combination of the divergent mortises, g, h, or their equivalent, the guide groove, i, and the projection, k, as applied to the seat holder, C, and the journal, e, provided with a tenon, as specified, and arranged in a stand, B, substantially as explained.
I also claim combining with a supporting socket or stand, B, and the chair seat or chair, the lateral bearers, F, F', and legs, G, G', each provided with feet, m, n, the same being for the purpose specified.

SCYTHE FASTENING—D. W. Green, of Bernardstown, Mass. (assignor to himself and Aretas Ferry): I claim the combination of the adjustable wedge and cam lever, as applied to the binding stirrup, and snath, as arranged and made to operate therewith, substantially as specified.

SAW MILL DOGS—G. W. Hill, of Waverly, N. Y. (Assignor to Francis Lyons, and G. W. Hill): I claim the peculiar form of the ball block, having a front and back rest or bearing in connection with the arm, G, clamping the shaft of the screw, C, in the manner and for the purpose described.
I also claim the die or dies, H, H, in connection with the spring bar, I, the rest, e, and the guard, f, the whole arranged, combined, and operated, in the manner set forth.

MACHINE BRICK—S. W. Wood, of Washington, D. C.: I claim molding brick by concussion, whether it be by this or any other mechanism.

FELTING HAT BODIES—J. S. Taylor, of Danbury, Ct.: I do not claim, of itself, a vibratory bed or rubber, operating in connection with rollers for felting hat bodies, nor yet merely of itself, rollers having a positive motion or reverse action for various rubbing and other purposes, as such are common to felting and other machines.
But I claim the vibrating rubber or bed, E, in combination with the rubber, M, having a positive movement or rotation on their own axes given them in a direction causing the outer points of their peripheries, to travel in the direction of their general travel, as acquired by the rotation of the central shaft, B, as specified, when the same are arranged for operation together, as set forth, for the purposes described.

ADDITIONAL IMPROVEMENTS.
FAUCET—Moses Woodbury, of Boston, Mass. Patent originally dated March 1, 1856: I claim the combination of the screw, or its mechanical equivalent, with a hollow cylinder valve constructed as specified, and the spring when the latter is placed behind the valve, substantially as set forth.
HOLDING WINDOW BLINDS—H. A. Frost, of Worcester, Mass. Patent originally dated Jan. 23, 1855: I claim the improved manner of hanging the brace, D, so that it will operate freely by its own weight, and casting or swedging the notches, or their equivalent, so as to retain the blind in any desirable position.

Digestion Observations.

Alexis St. Martin, noted in the annals of medical science, and whose case is described in all our elementary works on physiology as having, when a soldier, shot himself accidentally in such a manner as to lay open his stomach and expose the entire process of digestion to scrutiny—upon which Dr. Beaumont made a valuable series of observations—has been in our city for a few weeks lately, being brought from Montreal by Dr. Buntine. A number of our physicians have been experimenting upon him with different kinds of food with the view to ascertain the time required to digest them. A thermometer introduced into his stomach through the opening rose to 101° Fahrenheit. The carrot is consumed in five to six hours. Rare roast beef will thoroughly digest in an hour and a half. Melted butter will not digest at all, but float about in the stomach. Lobster is comparatively easy of digestion. Upon the application of the gastric juice to a piece of purple tissue paper the color at once faded. In relation to the patient's health, Dr. Buntine observed that it had been uniformly excellent, having, since his recovery from the first effects of the wound, supported a large family by his daily labor. These experiments do not differ materially from those made by Dr. Beaumont twenty years ago. St. Martin is at present a little upwards of fifty years of age, of a spare frame, but apparently capable of considerable endurance. He is in excellent bodily health, and has much vivacity of manner. The opening in his stomach has had no injurious effect upon his health, nor has it prevented him from pursuing active and severe labors. If he does not keep a compress to the aperture in drinking water or swallowing anything else, the whole contents of the stomach will pass out through that opening.

American Institute.

On the evening of the 8th inst. the annual election for officers of the above-named Institute took place, when the following gentlemen—the old officers—were re-elected. They are as follows:—Robert Pell, President; D. M. Reese, W. Hall, and E. Smith, Vice Presidents; H. Meigs, Recording Secretary; W. B. Leonard, Corresponding Secretary; E. T. Backhouse, Treasurer.