

Editorial Summary.

BUTTER MAKING.—It is as easy to make sweet butter as that which is rank and offensive. Sweet cream and ordinary care in the processes of churning, working, and packing can produce but one result—good butter.

TRANSPARENT METAL.—From one of our German exchanges we copy a statement that a transparent metal has been discovered, the component parts of which are water-glass and copper: "It is of a deep orange hue, can be melted and cast, wrought under the hammer, and rolled.

AN exchange recommends as a preventive of the adulteration of drugs an increase of price, and claims that this would not prove burdensome to the poor, as the number of public dispensaries and the benevolence of practicing physicians, afford them ample relief.

THE connection of Mobile Bay with the Mississippi River, via Bayou Manchac is being agitated by the citizens of Mobile. The expense of the work in order to make it practicable for large steamers is estimated at nearly \$4,000,000.

AN examination of the statistics of death from sunstroke in the city of New York, gives the following exhibit: In August, 1853, 224 persons died from sunstroke; in 1863, there were 135 deaths from the same cause; in 1866 there were 230 deaths from sunstroke, and during the present year up to Saturday, the 18th inst., there were no less than 833 deaths from heat alone, as reported by the papers.

PROF. TYNDALL concludes his memoir of Faraday with the following beautiful tribute to his memory: "You might not credit me were I to tell you how lightly I value the honor of being Faraday's successor compared with the honor of having been Faraday's friend.

PRUSSIA has shown her determination to become a first-rate maritime power, by making an extraordinary appropriation of \$7,152,374 for the year 1869, to be expended in the construction of fortifications at the sea ports she has just obtained, and in manufacturing heavy artillery and armored vessels.

THE Courier Medicate, of Paris contains an able article upon infant mortality. It attributes it largely to the insufficiency of bone tissue, and says that the milk of a healthy nurse ought to contain more phosphate of lime—the basis of osseous tissue—than is often the case.

SILK MANUFACTURE.—The silk mills of Paterson, N. J., are nearly, but not quite fully busy. The season for fringes is past. Some of the mills are engaged on trains. Paterson contains the largest silk manufactories in the country, capable of making anything from threads to trimmings.

EXPENSIVE MATERIAL FOR MODELS.—One of our correspondents from Central City, Colorado sends us, as a model of his patent for deposition in the Patent Office, a horse shoe of solid silver, beautifully finished and elegantly engraved.

THE German philosophy is beginning to react upon the popular taste. According to recent statistics, novels and other works of light literature are much less called for than formerly, while the demand for works upon science is largely increased.

ACCORDING to the recently issued Register of the United States Navy it appears that we have now in the navy, two hundred and twenty vessels, of which fifty-two are iron-clad.

WE are in receipt of several interesting communications upon the subject of tides. We regret that owing to the pressure of other matter we cannot make room for them.

OFFICIAL REPORT OF PATENTS AND CLAIMS

Issued by the United States Patent Office,

FOR THE WEEK ENDING JULY 21, 1868.

Reported Officially for the Scientific American.

PATENTS ARE GRANTED FOR SEVENTEEN YEARS, the following being a schedule of fees:— On filing each caveat.....\$10 On filing each application for a Patent, except for a design.....\$30

Pamphlets containing the Patent Laws and full particulars of the mode of applying for Letters Patent, specifying the models required, and much other information useful to inventors, may be had gratis by addressing MUNN & CO., Publishers of the Scientific American, New York.

- 80,046.—BRICK KILN.—Henry W. Adams, Philadelphia, Pa. I claim, 1st, The peculiar arrangement of the numerous and narrow heat distributing flues, & at right angles to and in combination with the covered fire places, C C, for receiving, dividing, and conveying their heat underneath the entire bottom of the bricks, when set in the kiln to be burned, substantially as described.
80,047.—HAND-LOOM.—James Albertson, and James C. Byers, Richmond, Ind., assignors to James L. Haven and James L. Branson, do, do.80,048.—ARTIFICIAL LEATHER BELTING.—Stephen M. Allen, Woburn, Mass.80,049.—KEY-BAR FOR TELEGRAPH INSTRUMENT.—Wm. E. Alyn, Boston, Mass.80,050.—MACHINE FOR SHARPENING HOP POLES.—Truman S. Angel, Watertown, N. Y.80,051.—CHRONOMETER.—Philip Bantel, New York city.80,052.—PORTABLE FENCE.—Benjamin F. Brattain, Noblesville, Ind.80,053.—MODE OF MULCHING STRAWBERRY BEDS.—Joseph Brutt, Geneva, Ohio.80,054.—FENCE.—R. W. Brokway and Henry Frederick, Akron, Ohio.80,055.—POLE FOR VEHICLES.—Edmund D. Brown, Battle Creek, Mich.80,056.—MACHINE FOR SINKING SHAFTS.—John Dickinson Brunton, London, England.80,057.—APPARATUS FOR DRAWING MEDALS.—Louis Christoph, Paris, France.80,058.—CORN PLANTER.—Z. T. Clagett, Washington, D. C.80,059.—BORING MACHINE.—A. M. Connatt, Madison, Iowa.80,060.—THREE HORSE EQUALIZER.—Giles Cramton and Pratt A. Spicer, Marshall, Mich.80,061.—SHAFT COUPLING.—Wm. Crandall, Philadelphia, Pa.80,062.—CUTLERY.—Edwin Day, Chicago, Ill.80,063.—MANUFACTURE OF ICE.—R. S. Egbert, Colfax, Cal.80,064.—STOCK-GUARD GATE.—W. C. Gault, Ruggles, Ohio.80,065.—FURNACE FOR ROASTING AND TREATING ORE.—R. George, Mineral Point, Wis.80,066.—VALVE COCK.—John B. Gibson, Cincinnati, Ohio.80,067.—HOISTING MACHINE.—Henry T. Goodling, York, Pa.80,068.—MACHINE FOR CUTTING OFF NAILS.—M. Gormley, Wilna, N. Y.80,069.—MACHINE FOR BENDING PIPE.—Thomas J. Harrison (assignor himself and Geo. Allin) New York city.80,070.—MACHINE FOR BENDING PIPE.—Thomas J. Harrison (assignor himself and Geo. Allin) New York city.80,071.—INSOLE FOR BOOTS AND SHOES.—Robert Heneage, Buffalo, N. Y.80,072.—CLAW BAR.—Michael Hennary (assignor to himself and John Adams) Crawford, N. J.80,073.—PIANO-FORTE.—Hiram Hurrick, Boston, Mass.80,074.—HOUSE SHOE.—John A. Heyl (assignor to himself and John H. Higgins) Boston, Mass.80,075.—APPARATUS FOR TOWING VESSELS.—James Maze Kilner, Chester, England.80,076.—STOVEPIPE DRUM.—J. A. Lakin, Thompsonville, Ct.80,077.—MEASURING LUMBER.—Clement Littlefield, Kennebunk, Me.80,078.—MACHINE FOR SAVING CREAM WHILE CHURNING.—Milton Love, Corry, Pa.80,079.—FLOOR CLAMP.—Frederick S. Mack, Galesburg, Ill.80,080.—REFRIGERATOR.—John Martin (assignor to himself and Jacob Jamison) Philadelphia, Pa.80,081.—MACHINE FOR PUNCHING LEATHER STRAPS FOR FLY NETS.—John Mathels, Ottawa, Ill.80,082.—VALVE GEAR FOR STEAM HAMMERS.—F. B. Miles (assignor to Bement & Dougherty) Philadelphia, Penn.80,083.—MACHINE FOR ROLLING HOES BLANKS.—S. A. Millard, Clayville, N. Y.

- 80,061.—SHAFT COUPLING.—Wm. Crandall, Philadelphia, Pa. I claim, 1st, A coupling, composed of two halves, connected together on one side of the shaft by bars or links, B and B', or their equivalents, and on the opposite side of the shaft by setscrews or bolts, all substantially as set forth.
80,062.—CUTLERY.—Edwin Day, Chicago, Ill. I claim the handle, B, with the tang, A, inserted therein, and having the locking recess, e, or its equivalent with the molten metal cast on the m, so as to form the bolsters, m, straps, n, and the cross bar or tie, l, of greater diameter than the slit in which the tang is inserted, all at one operation, substantially as described.80,063.—MANUFACTURE OF ICE.—R. S. Egbert, Colfax, Cal. I claim forming artificial ice in houses or receptacles by spray, sprinkling or dropping water through a pipe or pipes, G, or vessels, pierced with holes, a, or their equivalents, substantially as described.80,064.—STOCK-GUARD GATE.—W. C. Gault, Ruggles, Ohio. I claim the weight or float, H, rope or chain, G, lever, F, and hook, J, as arranged in combination with the gate, A, substantially as and for the purpose set forth.80,065.—FURNACE FOR ROASTING AND TREATING ORE.—R. George, Mineral Point, Wis. I claim, 1st, An oxidizing, desulphurizing, chlorinizing, and disintegrating furnace, as shown in the drawings, and detailed in the specification.80,066.—VALVE COCK.—John B. Gibson, Cincinnati, Ohio. I claim, 1st, The rubber rings, G and J, as arranged in combination with the valve, H, stem, E, and cap, D, as explained.80,067.—HOISTING MACHINE.—Henry T. Goodling, York, Pa. I claim the construction of a hoisting machine, arranged with a central post, B, turning on head, K, provided with pulleys, F, in a windlass, and a pivoted lever, L, to base of post, B, combined substantially in the manner and for the purpose specified.80,068.—MACHINE FOR CUTTING OFF NAILS.—M. Gormley, Wilna, N. Y. I claim the shank, B, having arms, H, H, Ganges, C, C, and opening, E, in combination with the sliding cutter, D, rods, G, G, and springs, all constructed, arranged and operating substantially as and for the purpose specified.80,069.—MACHINE FOR BENDING PIPE.—Thomas J. Harrison (assignor himself and Geo. Allin) New York city. I claim the arrangement herein described of the rollers, C, C, rollers, E, E, and bifurcated levers, D, D, on the platform, A, in the manner substantially as and for the purpose specified.80,070.—MACHINE FOR BENDING PIPE.—Thomas J. Harrison (assignor himself and Geo. Allin) New York city. I claim the arrangement herein described of the rollers, C, C, rollers, E, E, and bifurcated levers, D, D, on the platform, A, in the manner substantially as and for the purpose specified.80,071.—INSOLE FOR BOOTS AND SHOES.—Robert Heneage, Buffalo, N. Y. I claim an insole for boots and shoes, attached or otherwise, consisting of an air-chamber or chamber with suitable attachments, as a new article of manufacture.80,072.—CLAW BAR.—Michael Hennary (assignor to himself and John Adams) Crawford, N. J. I claim the claw bar, B, and fulcrum, E, in combination with the claw bar, A, substantially as and for the purpose specified.80,073.—PIANO-FORTE.—Hiram Hurrick, Boston, Mass. I claim the improved arrangement of the sounding board, "the wrest-pin" block, and the bridges with respect to the iron frame and the strings, such sound-boards, strings, wrest pin block, and bridges, under such an arrangement, being placed underneath the iron frame and above the strings.80,074.—HOUSE SHOE.—John A. Heyl (assignor to himself and John H. Higgins) Boston, Mass. I claim the connector, B, as described, that is as consisting of the jaws and toe and heel catches, arranged, constructed, and combined substantially in the manner and to operate with a hoof and with a shoe constructed essentially as set forth.80,075.—APPARATUS FOR TOWING VESSELS.—James Maze Kilner, Chester, England. I claim, 1st, The combination and arrangement of the cleaver and its trunk with the hull of a vessel, so that the cleaver may be operated as described.80,076.—STOVEPIPE DRUM.—J. A. Lakin, Thompsonville, Ct. I claim the arrangement of a number of radiating chambers, A, connected to the main pipe by means of the pipes, B and C, and operated by means of a damper, D, the parts being combined and arranged together in the manner herein shown and for the purpose set forth.80,077.—MEASURING LUMBER.—Clement Littlefield, Kennebunk, Me. I claim the application of logarithms to a circular movable form, with a double radius mathematically divided, so that one part works in conjunction with the other, substantially as and for the purposes specified.80,078.—MACHINE FOR SAVING CREAM WHILE CHURNING.—Milton Love, Corry, Pa. I claim the combination of the air chamber, a, and b, with the inverted tunnel, d, d, d, and the ring, g, f, for the purposes mentioned.80,079.—FLOOR CLAMP.—Frederick S. Mack, Galesburg, Ill. I claim the arrangement of the coiled spring, H, for forcing the slide or driver, G, back, and the roller, f, for relieving the driver of friction when operated upon by the lever, F, in clamping the flooring, in the manner as herein shown and set forth.80,080.—REFRIGERATOR.—John Martin (assignor to himself and Jacob Jamison) Philadelphia, Pa. I claim the ice-box or refrigerator, A, having the ice trough, B, arranged along its center, with an open space on each side, with the drip spout, D, joined to the strainer, and both connected with the reservoir, G, and having the receptacles, C, all arranged substantially as shown and described.80,081.—MACHINE FOR PUNCHING LEATHER STRAPS FOR FLY NETS.—John Mathels, Ottawa, Ill. I claim, 1st, The pulley, D, the brass rim, E, the hollow punches, M, M, the rod, L, the piston, J, and the crank, F, when combined with each other in a machine for punching straps for fly nets, and constructed substantially as and for the purpose described in the foregoing specification.80,082.—VALVE GEAR FOR STEAM HAMMERS.—F. B. Miles (assignor to Bement & Dougherty) Philadelphia, Penn. I claim the slotted lever, G, arranged to slide and vibrate on an adjustable fulcrum, and constructed and operating in connection with the ram of a steam hammer or with the piston rod or other reciprocating part of a steam hammer or engine, substantially as and for the purpose set forth.80,083.—MACHINE FOR ROLLING HOES BLANKS.—S. A. Millard, Clayville, N. Y. I claim, 1st, The construction of the projecting dies, o, o, together with their arrangement on the projecting portions of the revolving rolls, B, C, as described, said dies being for the purpose of spreading the blank laterally in the manner described.