[FOR THE SCIENTIFIC AMERICAN.] On a Cholera Ship in 1853.

I lived in Bangor, Maine, in 1849 and 1850, when the Asiatic cholera visited that city. I had a contract for a large lot of doors and sash for the United States government to be shipped to California for some government building, I then being in that business.

I had but fairly commenced on the work when the panic-stricken, and the city was deserted. Many of courage that nature gave me and determined to live or die at my work bench. My family, then only wife and one child, lived a little out of the city. At 7 o'clock every morning I was in my workshop, and 10 to 11 o'clock at night often found me there. Coffins could not be supplied in sufficient quantity to bury the dead, and I was besought to make coffins, but my government contract prevented my doing so.

While at my work bench I sawone mandie in a dirty

There was a medical fraternity called the Hot Crops, cessful of any class of practitioners. It died out with At first he refused, but I pleaded so hard that he finally fornia trade.

the fall frosts, and there ended the most terrible scourge that I was ever witness of or ever hope to see again. I lost money on my contract, but got out alive.

December 7, 1852, I sailed from New York City on steamer Uncle Sam for California, via the Isthmus of Panama. We were seven days on that filthy malaria and turkey buzzard region, with a railroad to the Chagres River only, where we were boated by natives scourge broke out. My partner, a Mr. Wing, fled with in almost a nude state up the river to Cruses, and from his family to the country. Deaths were soon rated at there on mule back or on foot (the latter I chose) unone to two hundred daily. People there were generally | til we reached Panama. There we took the steamer Cortez, with as stern an old sea captain as ever stood my workmen left, so I mustered all of the pluck and before a mast. I had a second cabin ticket. Imagine going from the State of Maine in midwinter, with the system and blood prepared for 10° below zero, and in a few days in a tropical climate at 100 to 110 in the shade, and one imagines the change and contrast! No sooner lives. But as near as I could keep count about 70 out had we left land than a high fever set in, and such a of 700 passengers died on that cholera-stricken ship. It headache I never bore in my life. My first thought was said to be the most fatal trip to the Golden State was ice water, but ice could not be bought. The small up to that time. amount was used only at the bar. I watched where the bartender came to get it out of a small room. I cellar kitchen. There were few if any regular funerals, stood there with my blanket, and as his back was but daily coffins or boxes with the dead were seen go- turned I grabbed a piece quite the size of a water ing with the poor victims to their final rest. It com- bucket, rolled it up and slipped around the corner and could form no other verdict than it being a scourge of stop until I had my prize hid safely in the bow of the to the formation of lead sulphide. Hence a plumbiferintemperance, dirt, and filth and of very high livers. ship. I then got a lady to sew a piece of oil silk to-I did not change my method or style of living; ate gether and make me a bag. I slept three days and fresh vegetables, fruit, meat, and melons. I had never nights by my ice, punching off small pieces, and poisoned myself with tobacco, beer, or spirituous liquors swallowing them and keeping a little in my oil silk of any kind, took my baths regularly, and lived as bag on my forehead. When my ice was gone my fever went with it and I was on deck again.

The second day out from Panama death commenced and they had what was then called a Hot Crop hos- from Panama fever, as it was called, and such a conpital. The very first thing that they did was to give dition as there was among the poor steerage passengers a cholera patient a dose so hot that it would almost cannot be described, and myself one of a very few who lately, is said to be the largest wooden ship afloat. burn his vital organs. I tasted the stuff, and it was was able to render any assistance. I went to the old like eating red peppers, that would make the tears captain and begged him to allow me to take a few run, and it was admitted that they were the most suc- dainties from the cabin to the poor steerage passengers. net tonnage 3,400.4. She is designed for the Cali-

yielded and took me to the head steward and gave directions to only allow me to take anything out of the cabin, and cautioned me to be extremely prudent and cautious, which I was. Soon the Asiatic cholera broke out, and a poor victim would die in terrible agony inside of an hour. They would be apparently well, and all at once in terrible agony, so that they could not stand, and then in a short time all was over and the body sewed up in a blanket and the feet weighted, and they were slid off a board behind the wheel after reading the Episcopal burial service. The mighty deep was their grave.

I finally persuaded the mate and ship physician to make beds in clear weather on the bow deck, and all that were possibly able to be got there were taken. This gave them fresh sea air, and, I think, saved many J. E. EMERSON.

Plumbiferous Glass Wool.

In the course of gas-analytic operations the author caused gases containing sulphureted hydrogen to traverse a plug of fine white glass wool, as obtained in menced there in the lowest, filthy localities of the place, off, rolling it up and hiding it, and the last I heard of commerce. The wool was blackened, and on further and from there went among the richest localities. I the bartender was "Stop that man!" but I did not investigation it appeared that the blackening was due ous glass had been used for the production of the glass wool. In various analytical operations where glass wool is used the presence of lead is objectionable. Nor can such material be used, as recommended, for filtering acids, since they may become contaminated by taking up lead.—L. Blum, in Zeitschrift fur Anal. Chemie, xxxi.

> THE sailing ship Roanoke, launched at Bath, Me., Her length is 311.2 ft.; breadth, 49.2 ft.; depth, 29.2 ft.; height under spar deck, 9 ft.; gross tonnage 3,539 and

RECENTLY PATENTED INVENTIONS. Mechanical.

WRENCH.—John Ryan, New York City. This is a wrench composed of but few parts, each of which can be economically and strongly made, and the wrench can be quickly and conveniently operated wherever a pipe wrench is to be employed. The sliding section of this wrench has a longitudinal slot around which are teeth, and the locking device consists of a pin turning in the shank or the fixed section and passing through the slot of the sliding section, a toothed locking plate engaging with the teeth of the sliding section and carried by the pin.

Tool Handle.—Albert Landon and Louis Martel, Rutland, Vt. This invention provides a simple and durable handle capable of containing a number of tools-such as a putty knife, screw driver, and awl-the tools when not in use being concealed in the handle without being removed from attachment thereto. A lock or latch which keeps the cover of the handle closed is used to throw the tools up from the handle so they may be grasped. While one tool is rigidly held in operative position the others are concealed and locked in the handle. This combination device may be carried in the pocket.

Boring Machine.—Jonathan W. Day, Crystal Springs, Miss. This is a novel contrivance for boring inclined apertures into the stumps of trees to form draught channels to facilitate the burning out of the stumps, or for boring apertures in logs, timber and other articles. It consists of a truck frame on which of good ice. are mounted inclined slotted ways, in which slides a frame with a crank-shaft carrying a gear adapted to operate an auger mounted in the frame. The machine is of simple and strong construction and can be readily moved about from place to place.

MORTISING MACHINE.—Erik J. Gisvold, Eagle Mills, Mich. This invention provides a moderate priced machine, with readily adjustable attachments, for use in cutting base blocks, corner blocks, and finishings for the interior of houses, or the machine may be readily converted into an implement for use as an ordinary mitering machine or a dadoing machine. Attachments are also provided for the machine whereby shingles may be cut in a number of

Miscellaneous.

SCALE ATTACHMENT.—Louis F. Robare, Au Sable Forks, N. Y. This invention provides for which the scales and receptacle have been ara simple and durable construction designed to render the beam noiseless at the fork, contacts made of soft material being arranged at the contacting points of the scale beam with the fork. On the underside of the end of the beam is a contact of rubber or other soft material, so that when the beam swings downward, the noise is deadened when the contact strikes the cross bar. The locking lever is formed with a fork in which is journaled a rubber roller, adapted to engage the top of the beam end, thus deadening the noise when the beam swings upward.

SEALING DEVICE.—Ludwig Wurzburg, London, England. As an improved article of manu facture, a nail foruse in sealing boxes, etc., is provided by this invention, the nail having a split shank, whose lower portion has one or more transverse apertures adapted to receive a sealing wire or cord, or a combination of two or more flanged nails may be similarly used. By means of this improvement a box, case or

package may be fastened in such a manner as to indicate whether or not it has been tampered with.

SHAFT TUG.—Joseph L. Gregory, Washington, Mo. This tug is made of two metallic sections screwed together, and having flanges around their inner edges forming a groove in which a packing ring of leather or similar substance is held to project, to constitute a cushion upon which the shaft is supported, and against which it may rub and strike. The shaft is thus held from contact with the metal frame and jar and rattling are avoided.

RICE SCOURER.—Squire A. Pickett, Crowley, La. In a nearly cylindrical casing supported on a suitable frame, and having a feed hopper at the top and damper openings at the bottom, a shaft carrying pairs of beaters is arranged to be rapidly revolved. In the lower half of the casing are openings closed by gratings or wire netting, affording ventilation to prevent undue heating of the rice, and permitting the dust and scoured-off rice skin to escape.

PLANER FOR ICE ELEVATORS. William H. M. Smith, Brooklyn, N. Y. The planer body is, according to this invention, held at an inclination above the elevator, and provided with several series of knives, one in rear of the other, the knives of the several series being in alignment, while means are provided for adjusting the inclination of the planer body and locking it in position. The machine is also especially designed to facilitate the removal of snow ice from the ice blocks in a manner to prevent the waste

FOLDING BED.—William S. Nevins, Terre Haute, Ind. This invention provides a bed of simple and inexpensive construction which may be manipulated without the use of weights. The bed is pivoted within a casing, to the base of which and to the head portion of the bed back of the pivot springs are attached, while spring-pressed levers fulcrumed in the base have constant bearings upon projections formed at the sides of the bed. Handles on the sides of the bed are adapted to engage latches on the sides of the casing. In the back of the casmg are shelves on which may be placed pillows or surplus bedding.

MILK RECEIVER.—Silas J. Morgan, La Grange, Ill. A box or casing with chutes to receive and conduct milk and cream to receptacles has been designed by this inventor, the box having scales to weigh the milk as delivered and a pocket for the reception of tickets, while an indicator visible from the exterior notifies the milkman of the required quantity of milk ranged.

STEREOPTICON AND MAGIC LANTERN DEVICE.-Horace W. Force, Newburg, N. Y. This invention covers anovelslide and shutter, with connected mechanism, for the successive exposure of different pictures in such manner that there will be a practically instantaneous change of views, without showing them in motion on the screen. The mechanism is so arranged that the shutters close and open while the carrier is stationary, the improvement also dispensing with the necessity of using in all cases a " double dissolving" instrument.

Bow for Stringed Instruments. Emil A. Kretschmer, Horicon, Wis. A slide mounted on the bow staff, according to this invention, has a transverse threaded aperture through which a screw extends into contact with the staff, the head of the screw having a concave outer face to receive the end of

the thumb. This improved bow is designed to enable the player, especially a beginner, to more readily hold the bow in correct, easy position, without danger of its slipping.

Bracelet. — Louis Cremonesi, New York City. This bracelet consists of an endless spring formed into a series of open loops and links held to span every two loops, the links being doubled around the loops and having widened and inwardly curved free ends. The bracelet has a good deal of elasticity, so that it may be made quite small and still be readily slipped over the hand. The construction favors its manufacture in very effective designs.

Pound Net. - George Williams and Albert A. Cleveland, Astoria, Oregon. This net consists of a lead proper, heart, tunnel, and pot, of the ordinary construction, but with guards arranged in series alongside of and a short distance from the lead, the guards being short lengths of net and spiles in hook shape, with the end of each guard section lapped slightly past the adjacent end of the next section, whereby the fish meeting the lead of the net will be prevented from drifting back too far away from the lead, and their entrance into the heart and pound will

HANDLE HOLDER FOR BRUSHES, ETC. -William E. Barnett and Bennet R. Chalk, Mount Washington, Md. This device comprises two separated sockets, between which the handle is pivoted, provided with opposite lugs adapted to extend into the sockets and be there secured. By this means the handle may be fixed at one or the other side of the brush, and conveniently changed from side to side to equalize the

Designs.

SPOON. - Richard E. Acton. Alexandria, Va, This spoon has on its handle end a miniature likeness of Gen. George Washington in court dress, his right hand grasping a staff and his left rest ing on his sword, while within the bowl is a representation of the old Christ Church at Alexandria, Va. which Washington attended.

METAL BORDER. — Charles Osborne, York City. The leading feature a serpentine figure in relief, its surface having a roughened, bark-like effect, while at alternate bende are flower-like figures, making a metal border especially adapted for dishes of various kinds.

TRIMMING.—Charles Lexow, Rosebank, N.Y. This design presents loops and sets of straight lines, all radiating from a common center on a band, rope, or braid-like figure, producing a rib of semicircular or circular cross section.

TRIMMING. - Henry M. Sacks, Madison, N. J. A series of connected scallop or crescent-like figures is presented by this trimming, the upper portion having a cord-like appearance and the remaining portion having a fringed, feathery, or fur-like effect.

TRIMMING.—Henry M. Sacks, Madison, N. J. This design presents a series of spire-like figures having a cord-like effect, each figure having a central stem and curled tendrils at each side, and the figures holding suspended a feathery skirt figure or drapery.

CLASP.—Sara Baxter, New York City. This is an ornamental garment clasp, with two body portions, one representing a spread cagle and the other a Maltese cross on which is a five-pointed star, the clasp chains extending from the bill of the eagle to the top of the cross.

Note.-Copies of any of the above patents will be furnished by Munn & Co., for 25 cents each. Please send name of the patentee, title of invention, and date

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