## SCISNTTIC MTSEVZI.

Remedy for Yellow Fever
We have seen it stated in a number of our exchanges that a remedy for yellow fever has been discovered at Angostura, Venezuela.The remedy is the plant vervain or verbena, which grows abundantly in that region.The expressed juice of the leaves given in small doses three times a day, with an enema of the same every two hours, is stated to be perfect cure for the yellow fever and black vomit, even in their most threatening stages. All the physicians of Angostura have adopted this treatment of the disease, and they state that hardly any deaths occur under its influence. This information is furnished by Mr . Mathison, the British Vice-Consul at the bove place.
The varieties of the verbena growing in the warm and temperate regions of the Western world are numerous. The particular species referred to above, is that known to botanists by the name of "verbena jamaicensis." It is a native of the West India Islands: as well as of the continent. There are two kinds of it, the male and the female; the latter is the one used as above. It has long been known to the creole population of Spanish America for its medicinal virtues. They have used it as a lebrifuge and an unfailing specific in cases of dysentery. It is generally given to children as a tea, mixed with sugar and milk, and is by no means a disagreeable beverage. The expressed juice of the plant forms a cooling purge for children in fevers. The vervain is likewise a remedy of particular note in sundry maladies that defy ordinary medicines. Sloane says it is a powerful deobstruent; according to Barham, it is likewise an excellent vermifuge. And, having now been discovered as a cure for yellow fever, the shrub must in future rank as a still mo valuable aldition to the pharmacopœia.

## Materials for Milk Pans.

According to the experiments of M. Hinueber, of Moisburg, Germany, one hundred Hanover quarts of milk yielded, in tinned milkpans, 7.07 Hanover lbs. of butter; Glass, 7.04 Wooden (not painted), 6.96; Earthenware, 6.92 ; Wooden (painted), 6.67. According to the same experiments, there required for one ot milk; produced by stall-feeding with tare and clover, 15.67 quarts; by pasturing, 11.84 showing that the milk obtained from cattle fed upon pastures is richer in butter than milk got from cows which have been fed in the stable with one and the same kind of plants: even a mixture of tare and clover shows an increase over clover alone.- [Polytec. Jour.
[By the above, tinned milk pans
[By the above, tinned milk pans are the
best for cooling milk and obtaining cream. In best for cooling milk and obtaining cream. In some dairies, however, all the milk is churnbest we should suppose that this was th There is to obtain all the butter in the milk suspect, that one vessel is just as good as ano ther, if clean, in which to churn the milk.

## Bed Clothes.

The perfection of dress, for day or night where warmth is the purpose, is that which confines around the body sufficient of its own warmth, while it allows escape to the exhalations of the skin. Where the body is allowed to bathe protractedly in its own vapors we must expect an unhealthy effect upon the skin. Where there is too little ventilating escape, insensible perspiration is checked, and something analogous to fever supervenes. Foul tongue, ill taste, and lack of morning appetite betray the evil.

Percussion Caps Superseded
A new composition hersed
ed by Messrs. Winiwarter and Geen inventVienna, tor the purpose of supd Gersheim, of dinary percussion caps, and, in dinary percussion caps, and, in many instances, the sunpowder charge also. The most prominent feature of these gun primers, as the composition is called, are the absence of a metallic coat or cover, and their uniform explosive power, the materials being of such nature that, after a detonation, no residue
mercury, chlorate of potash, and sulphide of ing through it, so as to exert a pressure on it antimony, the dangerous properties of which surface, which, when the cock, I, is open ingredients are diminished by the application of collodion, which is used as a cement, and it is the ingenious employment of this substance which constitutes the chief peculiarity of the invention.


This is an aerated water apparatus, introduced by Messrs. Gaillard \& Dubois, of Paris. The main leatures of this arrangement consist in the employment of three distinct chambers, or receptacles, one being for the water to be aerated, a second to contain the effervescing powders, and a third to retain a small quantity of pure water, which, after the apparatus is closed, is allowed to fall upon the powders, thereby causing the evolution of the carbonic acid gas. This figure represents one modification of this ingenious apparatus. The water, or other liquid to be aerated, is contained in a glass bottle, A, of elegant shape, and formed with a wide cylindrical
neck, to which a metal collar piece, $B$, is cemented. This collar is bored out to receive the long cylindrical vessel, C , like a chemical test tube in shape, supported by a metal the collar, B, is bored out conically, to receive a conical lid, $D$, which is screwed down by the cap-piece, E , the joint being rendered hermetic by the introduction of a ring of eather or caoutchouc, between the conical surfaces. The lid, D, has a central opening, F, resembling a hollow the small glass vessel, and position. It is fitted with a conical plue and position. It is fitted with a conical plug,
the spindle, $G$, of which passes through small stuffing box at the top, and has a but ton attached outside. The stuffing employed is a disc or washer of leather or caoutchouc which is compressed by the screw-cap, H Into one side of the collar, B, is screwed a species of siphon cock, I, consisting of a plug the external button, $J$, and closed by the action of a helical spring. The passage of this valve communicates with a tube, K , of small bore, reaching nearly to the bottom of the vessel, A. On the opposite side is a nother similar tube, L, descending to a like depth, and terminating above in a small rose, and in communication with the vessel, C , in which the gas is evolved. The manner of proceeding in using this apparatus is as tollows:-The cap, E , is unscrewed, and the three vessels are separated, when the largest, $A$, is filled to neary seven.eighths of its capacity with the liquid to be aerated. The bicarbonate of soda nd tartaric acid, or other powders for producing the gas, are now put into the tubular essel, $\mathbf{C}$, which is then put into its place in the vessel, A. The vessel, $G$, is next filled with pure water, and the plug being tightly cresed, it is placed in position, and the whole to set the matters in action then it is wished $G$, is depressed, and action, the plug spindle G, is depressed, and the water descends upon, he effervescing powders, and the gas evolved
torces it up through the tube, $K$, and out by
the spout, $M$, into the glass, $N$, placed to receive it.
New Way of Checking Railway Baggage. The following method of checking baggage has recently been adopted with great satisfac tion on two or three of the English railways When a train, say a down train, arrives at any particular station, a porter attends with a book. It contains tickets of stiff card board bound in the book. Each ticket is about three inches long and one inch wide. It is partly cut. So that two separate parts of it can be easily torn off. The tickets are numbered differently, but each of the three parts of a ticket has the same number. The outer part of the ticket has a loop of tape gummed
to it. Suppose a person arrives at a station and is not going on by a train for an hour or two or a day, and is desirnus of leaving a carpetbag or a trunk at the station. He pays one penny, and in a moment the taped portion of a platform ticket is fastened to the handle of the carpet-bag. This portion bears, as has been already stated, a printed number also; the words "deposited at Winchester," or whatever the station may be, and likewise the words, " tor down tiain." Another portion of the ticket, with the same number as the last, is torn off and given to the owner of the car-pet-bag, to be presented at the station when the article is wanted. The words "for down train is omitted on this portion. The portion of the ticket that is left in the book corresponds with that given to the passenger, and is a check on the money-taker. The company then becomes responsible for the safety of the property. Luggage is divided into three classes-that for down train, up train, and to be left till called for, and should be sorted into three different compartments at the station.For each division there is a separate book of tickets. If a person were to find or steal a ticket, and apply tor property, he would be instantly detected, because he would first have to say whether the luggage was for up or down train, or to be left till called for which he could not do unless he owned it.There is no necessity for any address to be on the luggage. One penny per package per diem is charged for a platform ticket.
a whl is how vetore vie nilusn rariament for regulating the hours of factory labor, by preventing the running of machinery after Englan hours. The hours of factory labor in England are much shorter than those in our country. Children under ten years are not are provided with and those under 13 years are provided with educational means by their employers. The operatives in these factories are not so well paid as those in America, but heir hours of labor are less by 12 per week.
Hot Weather.

On Friday last week the heat was so great in our city, that no less than 50 persons were sun struck. During the week we understand at, 200 persons lost their lives with the ; they were nearly all foreigners, and mostly natives of Ireland. For thirty years such excessively hot weather has visited re city. No less than 100 deaths by heat ccurred last Sunday.

## CITERARY NOTICES.

The Enginger and Machinist's Drawing Boor This work claims to combine the excellencies of the best French treatises upon mechanical drawing, it
is not, however, a translation. The Drawing Book
is based mainl metsed mainly upon the work of M. Le Blawne, whooke
methd illustrations are followed ; but the Eng
lish editor lish editor has incorporated the useful matterg of
other standard tieatises, and also addedmuch nal matter. The work is systematic and proprese-
sive; it commences with a description of drawing sive; it commences with a description of drawing
instruments and materials, and a preparatory series
of exercises, which make the studen instruments and materials, and a preparatory series
of exercises, which maks the student familiar with
the principles of geometry required. In dee principles of geometry required. In proper or-
der all te difficulties and mysteries of Mechanical
Drawing are to be elucidated Drawing are to be elucidated. Plain and practical
instructions are given for representing the most
complicated machinery. The illustrital complicated machinery. The illustrations on wood
and steel are numerous and beautiful. We find
nothing about the work to blame. It promises to
become the become the best book upon the subject. Tom Te com.
pleted in 14 parts ; Nos. $1,2,3$, and 4 are issued Pric
50 cents each. Biblioal R
This able Theological Quarterly, for July Revient d at 265 Chesnuto gtreat, Quarterly, for July, publish-
Dr. Cbarles Hodge phia, but edited by ains four leading garticles, of Prifincerent sub, N. J., con-
ligious in terest, and a ffth contan
in consequence finds its way by the tube, in par value
Letters

THE NEW ENQLANDER-F. W. Northrop, New Ha-
ven, Ct. The August number of this Well known
magaine and review is morth of its aagazine and review is worthy of its high reputa-
tion. The articles are chiefly on matters of interest tion. The articles are chiefly on matters of interest
at the present time ; we would commend to notice
particularly, the particularly, the article on Layard's Discoveries. Hovsehold Words-A journal conducted by
Charles Dickens: American edition published by Charies Dickens: American edition published by
Mçlrath \& Barker, 17 Spruce stret, N. Y. This
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The first number of the NINTH VOLUME of the SCIENTIFIC AMERICAN will be issued on the 17th of September, We are grateful for the very liberal encouragement which we have received from our readers, and take this occasion to express to
them our gratitude. We are also under many obligations to our cotemporaries for favorable notices. The next volume will be commenced with new and beautiful ty $p e$, printed on paper manufactured expressly for this publication, of greatly increased
woight and finer uality. this woight and finer quality: this item alone will increase our yearly expenses over $\$ 3000$; in addition
to this we shall increase our present able Editorial force as it is our intention to continue the Scientific American, "the leading and most reliable PRACTICAL SCIENTIFIC JOURNAL IN THE UNiTED STATES:" It will continue the unfinching advocate of all useful improvements, and it will fearlessly expose all unreliable and deceptive schemes appertaining to its character; [in this respect it has gained a reputation superior to any oth$r$ work of the kind in the world ]
The opening of the Crystal Palace in this city forms an object of rare pubtic interest; we shall decriticisms, reviews, and illustrations of tho most worthy of attention. We hope to render this department especially interesting to all our readers, whether they visit the Fair or not. The copions and Finely executed engravings of machinery, New Inventions, etc.-the FOUR HUN dred Pages of valuable Scientific and Practical Readin:-the USEFUL RECEIPTS-the full Re. yort of all the patent claims, and the relia ble character of the journal on all branches within its field of labor-render it worthy of the support which it has so liberally received from it intelligent class of readers.
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