

THE SANITARY NEEDS OF RURAL DISTRICTS
We believe that trustworthy authorities will uphold us in the statement that where more the result of accident than design. A great many towns have been purposely so
located as to secure good surface drainage, but beyond this the ordinary founders of villages seem to have no general sanitary idea. The the existence of water power, natural routes of transportation, or mineral deposits. It becomes a matter of grave concern to know how
the natural defects and dangers of a town site to be overcom
The answer natarally is, Interest the resiknow what neighborhood chats amount to the more perfect the agreement on a given
subject, the greater likelihood there generally is that the greater likelihood there generally practicully settled. But the ways of an irrewhen the same men reso society supported by an act of incorporation,
looked up to, and expected to do samething. By the conditions of their surroundings, by the usual unsatisfactory atate of the public
health, and by the individual prominence which is conveyed by membership of a public association, ea

What there is for local sanitary associations to do will not long be a matter of question literally one great cess-pool, saturated with the impurities and refuse of all who have been its inhabitants. There is not one town
in a hundred whose people drink pure water The garbage and impurities thrown on the people would raise a howl of remonstrance if age of waste water into street-gutters, unnure whose proprietors seem to think that the haman olfactories have no rights which manure owners are bound to respect, wayside pools always be found, land occasionaly subject to age is finally arrested, swamps over which winds frequently pass on their way to the any sanitary assoriation that niay be formed. A small pro rata assessment will pay for the engineer who will suggest better and cheaper remedies than any ordinary association will discover for itself. A similar outiay will survey which would fully inform the citizens of the actual sanitary condition of their to wn. communication Which exists between all pub lio bodies in small towns would exercise a great
desl of influence over town committees, supervisors, road boards, etc. In case of laggard sociations might follow the example of the
men who cut one of the great irrigating ditches men who cut one of the great irrigating ditches
of California ; Mr. Nordhoff reports that this ditch was cut i
ing resolutions :

First: That we cut the diteb
uphn iturntitifhishece
The oft-repeated truism, that the strength of anything is only the strength of itt weakest
part, peculiarly applies to this matter of of part, peculiarly applies to this matter of
health. Individual efforts in the direction of perfect ventilation, good cooking, healthful
heat, proper clothing, und personal cleanliness heat, proper clothing, and personal cleanliness.
are pruiseworthy, but their perfect reanlt cannot he realized while the neiighboring air is
polluted, the water poisoned, and miasmatic polluted, the water poisoned, and miasmatic
omanations are unchecked. It is only by combined action that such wide-spread influences may be removed or avoided, and the sufferings which reformation may impose upon time and pocket are not so annoying, costly or danger-
ous as those which result from submission to the existing status.-Christian Union.

## SMALL WAISTS AND CONSUMPTION

The desideratum of small waists has been the premature death of thousands of the faireat and most promising young ladies, before inviting by following the example of those who teach by their practice that they prefer conformity to the requirements of a perverted
no judgment in regard to this important matwith a fine organization in other respects, they can live out a long life in comparative health and comfort; but they are few compared to
the vast number who fall short and die before they have attained all they might have had on earth. The first or topmost rib on either
side, just under the collar-bone, is short, thin and sharp on its inner curvature. It has no motion, being a brace between the dorsa cor the purpose of protecting large arteries and veins belonging to the arms on either side of the neck. In cases where the chest has been
manipulated till the lungs cannot expand downwards they are forced up above that rib. leving and the lobe chafes and frets against the re sisting curvature. It is inflamed at last, and the organ becomes diseased. If that chating serous covering of the lung is irritated con-
tinually, the inflammation is apt to extend quite into the body of the organ, increased and intensified by exciting emotions, laboriou pursuits, or unfavorable exposures. Finally, the lung sympathizes. No compression
of the base of the chests of men being induced by tight dressing, a chafing of the apper surface of the lung rarely occurs with them. Great men, giants in any department soious of their influence--those who quicken thought, or revolutionize pablic sentiment, and leave the impress of their genius in the
history of the age in which they fleurished, were not the sons of gannt mothers whose
waists resembled the middle of an hour-glass

## THE ASH LEACH.

From time immemorial the ash leach has been in use in many eivilized, that is, soap. not tight enough to hold water. Being first
nalled with ashes, water is then poured in filled with ashes, water is then poured in
gradually, and, after a time, runs out below, gradually, and, after a time, rans out below
hignly charged with the soluble salt of th
But, although this machine has been so long in use, the principle on whieh it acts does not seem to have been fully understood until quite
lately. About the year 1833 Messrs. Boullay lately. About the year 1833 Messrs. Boullay,
of Paris, applied the same apparatus to the of Paris, applied the same apparatus to the manufacture of pharmaceutical preparations,
tinctures, infusions, extracts, \&c., and it a once became popular with pharmaceutists, un
der the name of Boallay's Filter, or the Die placament Apparatus. Its mode of operationts simple ; the first portion of liquid poured in
sinke into the puw ulot that io to bo ouhentha and saturates itself with the goluble parts o
The latter additions of liquid, instead of mixing with the first, drive it down before them and take its place, to yield it in turn to
the next portions poured in. Thus the first portions of liquid that run from the bottom of contain nearly all the soluble matter, and the last will bealmost unchanged. For example if an ounce of powdered ginger be put into a glass tube, as a small lamp chimney, over the lower end of which a piece of cotton cloth has been tied, and alcohol be slow that comes through will contain about all the strength of the ginger. Looking through the glass we
can watah the whole procese, see the first alcohol dissolve the resinous matter of the ginger, becoming thisk and dark colored in consequence and then falling down before the new colorless alcohol added above.-From Popular Science Monthly.

Amber? -It is a resinous subWhat IS AMBER?-It is a resinous sub-
tance, the produce of extinct forests, that now lie buried in the earth or under the sea. ed by trees which bave long since disappeared from the surface of the earth, but once formed extensive forests on the islands or shores of plains of Northern Europe as far as the foot of the Auralian chain. The trade in rongh amber is almost exclusively in the hands of
the Jews, who purchase it from the amberfishers, orare interested in the diggings which are made on most of the littroral estates. It is
found abundantly on the Prussian coast of the Baltic, where it is collected in many ways. After stormy weather it is frequently cast anhore by the surf, or remains floating on the
water. The amber-fishers, clothed in leather dresses, then wade into the sea, and secure the amber with bag-nets hung at the end of long poles. They conclude that much amber has been detached from its bed when they discover many pieces of lignite floating about. In
some parts the faces of the precipitous cliffs along the shore are explored in boats, and masses of loose earth or rock, supposed to
with long poles having iron hooks at their
euds. That which is washed ashore generally
consists of small pieces, more or less damaged, while the specimens obtained by digging
or dredging are frequently of large size, and of a tuberous form, so that, though inferior in quantity to the former, their value is probably ten times greater. Digging for am
ber is a favorite pursuit of the peasantry, and though in many cases it proves unsuccessful, yet sometimes it is highly remunerative. Near the village of Kowall, a few miles from Dantzig, avenues of trees were planted a few years back along the high road. On digging
one of the holes destined for their reception a rich amber nest was found. Favorable signs induced the landowner to persevere in digging, and at length, at a depth of about thirty feet, onabled him to pay off all the mortgages on his estate. The territories where amber is found extend over Pomerania and East and est Prussia, as far as Lithunaia and Poland hut chiefly in the former provinces, where it in the sand, clay, or fragments of lignite of the upper tertiary and alluvial formations. the sand-banks of rivers. How far its seat may extend under the Baltic is, of course, un known. Amber is likewise met with on the
coast of Denmark and Sweden, in Gallicia and Moravia, nearChristiania in Norway, and in Switzerland, near Basle. It is ocoasionally
found in the gravel-pits near London ; specimens have been dug up in Hyde-park. A
Aldborough, after a raking tide, it is thrown with the beach in considerable quantitipe, along
Eabti Worms.-Thene insignificas and anattractive creatures are of the greatent
benefit to the filds whioh they inhabit, though benent to the fields whion they inhabit, though are very humbie, but are efficient servants o
the agricalturist; and far from injuring his
meadow and his garden, they devote them meadow and his garden, they devote them
selves with the most praiseworthy assifuit to turning over the soil to a greater depth the best appliances known to science. These
animala-for so they are classified by the naturalists-are scarcely more than animated
tubes. They seem to live by taking earth an earthly substances in at one end and passing
them out at the other. This simple ptoess on them out at the other. This simple ptoces retion, and the worm has a habit, when $h$ has filled himself with earth, of ascending t the surfa ce, turning round and working him tion unloads him, and the process, repeated by millions of his fellows, cannot bat have highly beneficial effect upon the quality of
land. It is said by Mr. Darwin that these
 so are all the processes of nature. This, how-
over, is not all that they do. They carry heir shafts and galleries to a depth of several feet, and cross and intersect in all directions, waser, and, in short, doing all that they can to halp vegetation, without proying upon
njuring its roots in the slightest degree.
Fresh Air.--One of the problems of social life, and one which has never yet been quite satisfactorily solved, is that of ventilation. But few others are of more importance with But few others are of more importance with
regard to health, eeppecially in large towns and regard to heaith, erpecialy A simple method for ventilating sleeping and living rooms ha Cut a piece of wood three inches high, and exactly as long as the breadth of the window. Raise the sash, place the slip of wood on the sill, and draw the sash closely over it. If the
slip has been well fitted, there will be no draught in consequence of this displasement of the sash at its lower part; but the top
of the lower sash will overlap the bottom of the lower sash will overlap the bottom
of the upper one, and, between the two bars, perpendicular currents of air, not felt as draught, will enter and leave the room and
the atmosphere will be kept freeh and wholethe atmosphere will be kept fresh and whole-
some.-From" "Cassell's Family M Iagazine" for some.
July.
New Style of Water Trangport.--The syenite monolith known as Cleopatra's Needle is to be transporte, to condion it ovea, by To make it float properly, it is to be coverod with timber and planks tind all. To compensate for its tapering form, one end is to be made larger than the 8 ther, and when finiebsed, the timber dressing will be something over twent tapering, to assist the steamer in towing, and even if the cigar-8haped mummy runs aground,
its casing will save it from harm. The most riskful part of the voyage will be the launching and the rolling ashore. In this connection it may be noticed that cylindrical boilers
are transplanted through the canals in Holland in somewhat the same way. The flues are
plugged up with wood, and the steam openings
well painted with red lead, the boilers are
rolled into the canals, and, behind a steamrolled into the canals, and, behind a steam-
boat, make their voyage in perfect safety.

A Dinner Party and Scarlet Fever.-A few weeks ago some respectable, cleanly,
healthful English ladies and gentlemen sat down to dinner together in a private residence surrounded by a model neighborhood.
days later nearly every member of this pame
dinner party was suffering from scarlet fever. dinner party was suffering from scarlet fever
How they took it no one knew; it has been Hgested that the diseare was communicate by the cream, or by the table-cloth, the latter
having been cleaned at a laundry. The case is not the only one of its kind; similar though perhaps not so violent outbreaks of diseane have taken place in many circlee, and no one
has been able to trace the infection to it is that in fectious and contagious diseases can be secure only by the isolation either of thone who fear eclude the former is well nigh impracticable diserse is 80 easily p and so many people are endangered by neg lect of proper precautions, that the whole sub ject urgently demands thorough, careful
legislative attention.-Christian Union.
Seiling Mile in Giass Botples.-We se it stated that a milkman at flimira, N. Y.
has introduced a new plan of delivering milk n his wagon are arranyed side racks, contain ing quart and pint bottles fillod with pure,
fresh milk, full measure. These bottles are delivered as required; the customer returns the bottle left' the day before; and no pitchers,
pails, bowls or dishes are necessary. Another advantage of the system, especially in warm weather, is that each bottle is tightly corked and can be laid in a pail or pan of cold water,
keeping it fresh and sweet, or put a way in a keeping it fresh and sweet, or put awry in a ment is a most unselfinh one, as it will aceom modate his customers much more than himest He will have all these bottles to handle and wash, but it must be a great convenience to oxtra.-Herald of Health.
Tramway Motors.-While the subject (f sterm-rail transit is attracting attention in
New York, other cities are solving their transit questions in their own several ways. The with steam at the termini, is in wocessful operatiou, and the coiled-spring ider is under going experiment. In place of ene opring,
wound up at intervals along the road by means of stationary engines, a number of springs each properly wound up, are taken on
at the beginning of the route, and as fast a ne expends its energy in movid
 made. Another style of motor, said to be in practical operation, employ the floor of the car Suitable tanks, loaded up by a compressor a the road, supply the engine, and tained for a hort distanco Scribner's.
Method of Preasrving Eags.-Profebsor Sacc now announces that by far the beat
method of preserving egga for an indefinite length of time consists in coasting therp with paraffine, of which one pound wil answer for ed th hased egg. Ater beling and will remain oxpange for month. It is essential, however, that the eggs be perfectly fresh, as, should decomposition have continuance.

- The professor of hygiene in Amheret College has for the past fourteon years kept a
record of the sickness among the students which involved an absence from college duties of two or more consecutive days. He attri bates it to the requirement of regular gymand censtant decrease in sickness as the classes advanced from year to year. Freshmen are healthy class in college. Study, like any other work, is healthy if the laws of health are decently observed.
Deux Mundes forological article in the Revue des ious statement that it is observed that a wet summer does comparatively little to feed the water springs, and that a dry winter will be followed by a dearth of water, even though ingly when the rainfall in the Department de and April, 1574 to be much below the average the farmers were officially warned to expect a power instead
- A patent has been taken out fer an in be used as a building material for house-fronts. floors, or pavements, superior to marble in
durability and ceonomy. It can be made plain

