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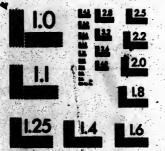
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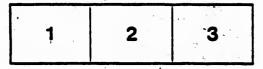
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VENTILATION.

CHAPTER I.

In these days every school boy knows something about VENTILA-TION. He knows, for instance, that people must have a large and constant supply of fresh air, if they would preserve health and life ; -he knows that the breath of man is the most deadly poisonthat "collected in a jar it will kill mice, and accumulated in a room, it will kill men !" And if he have the misfortune to gather knowledge, not from a tree in a garden, but from the deak of a close school room, he has a practical expirience of the pursuit of knowledge under difficulties, and soon while, without reading about the Black Hole of Calcutta, that mind and body are both suffering for want of fresh air. If our school boy is a fisherman and catches "shiners" to bait for bass, he has probably often seen his bait turn on their backs in his pail of water, and after a little choking, quietly expire; and he knows the cause, vis: want of air, -that in the water is exhausted, and he has not put fresh water in to supply its place.

Were a modern ball-room or dwelling air-tight, the inhabitants would soon share the fate of the "shiners;" but lackily for them, neither carpenter nor mason work has reached that point of perfection, so they are only slightly suffocated and poisoned, and soon come to life in the fresh air. Doubtless many will exclaim against this. The entranced Augustus will repudiate with soorn the idea that when Angelina reposed on his arm in a polka and whispered that she loved him everlastingly, it was only poisoned air rendered sonorous by the action of a laryn tongue, teeth, palate and lips. "What folly!" the old fogies will say, "to insinuate that breath is hurtful—just as if nature did not know when she made man a social animal, whether breathing each other's breaths, would prove injurious." Nevertheless both old and young will, immediately after expressing contempt for ventilation, complain of the closeness of the room, or steamer, or railway car, and rush to the door for relief. 2

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But notwithstanding the ignorance and unbelief of a great portion of the world, scientific men are still busily engaged in devising ways and means to protect man by means of physical and mechanical ventilation, from being poisoned by his fellow man. We have now all sorts of ingenious contrivances under the second system, -fanners, forcing pumps, sucking pumps, screws and other contrivances, too numerous to mention. In 1668, H. Schmitz published the scheme of a great fanner, which, descending through the ceiling, moved to and fro, pendulum wise, within a mighty slit. The movement of the fanner was established by means of clockwork, more simple than compact; it occupied a complete chamber over head, and was set in noisy motion by a heavy weight. The weight ran slowly down, pulling its rope till it reached the parlour floor. As for the screws they are admirable on account of the startling results sometimes produced. Not many years ago a couple of fine sorgws were adapted to a public building, one to screw the air in and the other to screw it out .- but horior of horrors, both screws blew down with a gust of contempt upon the siry projector. Of the fanners it is not worth while speaking; they answer admirably for cooling the air in India, where a servant can be kept to move one in each room : and Mr. BARRY's monster fanners, moved by steam, cool the air for the British House of Commons at an expense of over half a million dellars. But as for ventilation-that is circulating fresh air-they are perfectly uscless. So far, then, as mechanical ventilation adapted to buildings is concerned, it may be pronounced a failure.

But Physical Ventilation-that which imitates the process of nature, and whose chief agent is heat; has at length established itself as a great success. In nature it is said-the Sun is the lordhigh ventilator. He rarefies the air in one place by his heat, enswhere permits cold and lets the air be dense; the thin or warmed immedithe closethe door

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air rises and the dense air rushes to supply its place, so we have endless winds and ourrents, Nature's ventilating works. Of course, a common fire-place with a quarter of a cord of wood; or an hundred weight of coal, is a good imitation of the Sun's system-the firemakes an according current, and the cold air rushes from the doors ad windows to the chimney, as from surrounding countries to the ming deserts, as the draughts shout the legs, necks, and backs to the most sceptical. While one side is being toasted, the officer side is being frozen, so that a man has to revolve as on a spit, in order to let each side have its proper quantity of heat and cold. The old settlers have a superstition that so soon as they build a new house and move into it they are sure to die. This has a good deal the sppearance of being the rule. But the reason is, not that a supernal power envies their new abode, but that they themselves are the authors of their own misfortunes. For instance, an old couple have been in the habit all their lives of living in a log house, with walls windows and doors not over tight and a dutch fire place, which when in the blast would almost carry, one of the youngsters out at the chimney top. In other words-they live in the midst of a most splendid system of ventilation, and as a consequence enjoy the most robust health. From this they move to a new house with no fire place whatever and no open flues. Here they sit themselves down by cooking or parlor stoves, and half stupified by the foul and over heated air, dreath of long years of happiness. Soon, however, the blood becomes less and less pure and disease sets in to obtain an oury victory l

How differently all this might be managed; how easily such a misfortane might be remedied. With open flues or fire places in each room, and a ventilating stove in the hall connected by a pipe with the air without, not only would there be no draught, but every room in the house would be kept at the same temperature by a constant stream of warmed, not heated air, which would be changed and replaced by fresh air every four or five minutes during the day. "Yes, yes" a venerable old lady will say, "I suppose I might have "all this at the expense of a hole or five as you call it in every "room, but you don't ontoh me spoiling the appearance of my "rooms for the sake of ventilation !" It is in vain to tell such people that a house with open flues in every room can be built at the same expense as a house with no flue at all—the real objection is the *hole* in the wall—however neatly it may be disguised by ermomental registers or fans. The best of the joke is that the spine parties who object to flues or fire places, will stick the walls fall of windows. They will have something nice to look at no matter how filthy and unhealthy the *air food* which they are inhaling to cleance the blood 1

Thanks to modern architects, if we go to church we can done through the most delightful sermons. If we go to balls or concerts or public meetings, we can pant after fresh air, and come home with head-aches, inflamations, and incipient consumptions. Long may they believe that lungs are wind instruments of brass; and let us hope that when they do get a ventilating fit they will prefer strange machines, pumping, corewing, steaming apparatus, to the simple pure air of heaven, which requires but a pipe and a ventilating stove to set it floating day and night through all our dwellings.

The celebrated HUMBOLT, who died the other day, considerably over ninety years of age, attributed the good health he enjoyed to his love of fresh air. He tells us that in one of his travels on ship-board, a sailor was reduced by fever to the last gasp, and at his earnest request was taken on deck to die. But strange to say he no sconer felt the cool air than he began to revive, and he "eventually perfectly recovered."

Those then who exclude the fresh air from their lungs, take the first important step towards raining their constitutions. The more they sit in close rocoms over that wholesale destroyer the *box-stove*, the more tender they become and the more they crave cloaks, coats, wrappers, comforters, India rubbers, and all the other blessings of this life. "Lock I" they exclaim, "at the progress of Man.----Who ever saw a *Lion* in cork soles, or with a sore throat? Can the *Tiger*, mount his great cost when he goes out to a social party? Do

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Does an Mogie soar with an umbrella over his head to keep off the sum or min ? " Man alone, comprehends these luturies; and it is when he is least healthy that he loves them best.

Det sitting by stove heat in an unventilated room is nothing to in a close bedroom. Wheever travels a good deal is often to a room with a chimney indeed, but closed with a fire that there is no possibility of the foul air esceping during

There is not even a stove pipe hole into the chimney. he landlord, with a preiseworthy care for the health of his has not stopped either with tin, cloth, or wood. There is a t on the door so that you may shut in all the foul sir, and keep it in. If you happen to be a man of note, you are probably shown to the best room that contains a sufficienting machine called a ourtained bed. So it is not enough to have diluted foul air, it must be condensed as close as possible round your person. This may be called the Poison Vapour Bath, and is enjoyed in the greatest perfection in a feather bed. The feathers prevent the transpiration through the skin, and most effectually smother the flesh. But then lying on feathers is a sign of gentle breeding. An ancient writer tells us how a king's wife found out whether her lady guest was a real born princess. She placed three peas in the young lady's bed, and over these fifteen feather beds. In the morning the young lady complained that she had been prevented alceping by the lumps under her sheets. So you see blood will tell. Next to the close stove room, the unventilated bed room and feather bed are the most ingenious contrivances for the destruction of human life, and to complete the business many people cover their heads with night caps, or stick them under the bed clothes till they are obliged to put out their noses to prevent actual sufficiation !

If I were to treat in scientific terms upon the properties of air, I might be as unfortunate as the young Cambridge student who was airing his wiedom at a dinner party. He was most eloquent upon heat and cold, radiation, rarefaction, polar and equatorial currents, acc.; when he had brought his discourse to an end, he turned round upon a grave professor of his college, saying, "And what, sir, do you believe to be the cause of wind?" The learned man replied, "Pea-soup, pea-soup!" So I shall avoid as much as possible, scientific or uncommon terms, and content myself with describing to you in a plain way, some of the commonest properties of air.

Air is composed of two simple elements, and one component ment in very small proportions. About 80 parts in an 100 of air, is composed of a kind of air or gas called nitrogen, a simple ment and apparently of no use except to dilute the oxygen name of the other simple element, a gas or air composing about parts in an 100 of the atmosphere. The compound element is a gas called carbonic acid, and forms about one part in 2000 of parts air. It is compounded of oxygen and carbon, a simple element or substance which composes the greater part of coal and gives to it its chief characteristics.

The air cells of the lungs are filled upon the principle that gravitation causes air to rush into any cavity. These are situated on either side of the chest, and communicate with the air through the windpipe and nose, or mouth. Three evident effects are produced upon the blood in the lungs by the action of air. Its color is changed from a purple to a bright red, its temperature is raised, and it is diminished in quantity. Doubtless other effects are produced, but about these there is no dispute. The degree of effect produced, depends upon the quantity and quality of air to the action of which the blood has been subjected in the lungs.

The composition of the air has been already stated; but after it leaves the lungs it is very different; instead of 20 parts in an 100 it contains but 16 of oxygen, and contains nearly 4 parts of carbonic acid. It is very full of moisture as may be seen by breathing upon glass. Its proportion of nitrogen has not changed in an appreciable degree. If a person apply his mouth to the mouth of a bellglass bottle or decanter, the bottom of which is wanting or has a hole broken in it; and then push the bottle a short distance into a pail of water, he can draw all the air in the bottle into his lungs, from which he can breathe the air back into the bottle. This must be so held in the water that it shall follow up into the bottle as the air mr

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out after it a an 100 it a an 100 it f carbonic bhing upon an appreciof a bellg or has a noe into a his lauge, This must ttle as the air is drawn out, and when the bottle is again filled with sir, it must be held quite steady, with the mouth yet applied to it and the yet in the water. In the meantime let a match be lighted; hen it is burning well, remove the mouth and drop the bottle inch into the water, and thrust the match iato the mouth ottle, when, if the experiment have been well managed, the ll instantly grout. Showing that the air is so changed in that a match will not burn in it. If any one requires proof of the unbealthiness of air after it has been once let him inhale the air from another persons nose or mouth, from the cool fresh air of morning into a crowded unventilted milway car which has travelled all night.

Then, as the air coming from the lungs is not mitable to be received sgain, and as a large quantity is used in a very little time, it follows that all rooms should be perfectly ventilated, by having communication with the Grand reservoir-the atmosphere surrounding the earth. This should evidently be more carefully attended to during the night, than during the day, as then the opening and shutting of doors, and the fires in cold weather, will tend to purify and change the air in a room. Experiment and accident have proved that carbonic acid breathed out from the lungs is so very poisonous that 10 per cent. will destroy the life of animals, and many human beings have lost their lives by going into wells, tombs and other places where it existed. The burning of most articles produces a great deal of it, coal a vast quantity when burning, and a pan of coals placed in a chamber has produced so much as to destroy life. If a grate do not draw, the gas is likely to pass into the room without any smoke, a great cause of headaches, &c. Doctor T. S. Lambert above quoted, says : "In regard to pure air, the old adage seems true, ' nothing cost, nothing worth." If sir could be monopolized and sold by the gallon, its value would soon be appreciated. He continues- A healthy state of the body generally, with active exercise of all parts of the body, but particularly the muscles of inspiration and expiration, and ventilated apartments, are the chief things which conduce to the perfect action of the air and blood apon each other in the lungs." And as it has been seen that one of

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the chief, if not the chief duty of the lungs, is to produce heat, it follows that if a person would be warm he must preserve his general health, take exercise, and breathe pure air / Hence it is to be inferred, that a person will also warmer the coldest night in with his apartment ventilated, which cannot be done perfected copt there be communication with out doors. Especially data might will a person be kept warmer and be in less danger cold, if a also partment be ventilated, not in such a that a draught of air shall come upon the person, but at time perfectly."

Thus we see that pure air acting on the blood produces and and foul air disease and death. But our object is not to write an essay on air, but on the means of bringing it into our dwellings and Railway cars.

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We have said that mechanical ventilation as applied to houses, is a failure. Not so mechanical ventilation as applied to Railway Cars, as those of our readers who have travelled in RUTTAN's ven--tilated cars on the GRAND TRUNK, can testify. There we see that by means of a ventilating cap on the top of the car, a continuous stream of air, purified in summer by passing over a large shallow tank of water, is furnished to the inmates of the car. The same quantity of air is also supplied in winter, but warmed by means of a simple but most efficient ventilating stove. No matter how much dust there is outside, not a particle comes into the car, because it is deposited in the water tank underneath. And no matter how much filthy tobasco is spit or blown out of the mouths of the passengers, or how diseased their lungs or throats may be, the strong downward current of air carries off the perfume without compelling their fellow passengers to swallow it. Indeed, so perfect is the working of RUTTAN's system in summer that the passengers enjoy the benefit of steamboat, with the rapidity of railway travelling. His motto is "pure air and plenty of it."

As regards RUTTAN's mode of ventilating houses, we have not space to describe it, but we may say that he puts LUNGS into the building. That day and night, in summer and winter, there is a nce heat, it whis genee it is to he t in whet

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o houses, is to Railway TAN's venwe see that continuous rge shallow The same y means of how much ecause it is how much passengers, downward their fellow working of the benefit Lis motto is

e have not GS into the , there is a stream of fresh air, pouring through every room in the house. Of ename it is warmed in winter by passing through a ventilating or a ventilator as Mr. Ruttan delights to call it. This is of ventilation which we denominate physical, because it action of nature. As the heat of the desert draws the surrounding countries, so the ventilating stove attracts air from ontside the house or the railway car, and this expels the cold air and takes its place.

> water or hot-air architect, we will leave this particular our subject at present, and devote a few pages to considour subject at present, and devote a few pages to consid-

CHAPTER II.

Travel where we will, whether on railways or steamers, enter what society we may, we find nine-tenths of our fellow mortals suffering from ill-health. Why is this? Because from the oradle to the grave we set the laws of health at defiance!

No sooner is the blessed baby born than the watchful nurse crams down its throat a dose of physic, and fastens its first dress with innumerable pins. What the calomel and honey, or castor oil, is unable to effect inside, a sly prick effects outside, and the troubles of the little " pale face" begin. Ten to one that the doctor is sent for and other doses are rapidly administered, some preparations of laudanum probably, when the little sufferer is put into a oradle and by active rocking sent to sleep by producing giddiness, giddiness being a disturbance of the blood's usual way of circulation. Perhaps when the dress is changed, the establishment of the raw will be discovered. But the nurse has learned one thing in the mean time, vis : that preparations of laudanum save a world of trouble, and that giddiness if it does not produce healthy sleep, at all events, produces quiet I The next torture the poor child undergoes is to be awakened out of its sound sleep to have some food. Nature of bourse does not know how often the infant ought to be feds (altho: she would feed

it every four hours,) so she is to be taught a lesson. After the food, the child is to be put to sleep again, either by the rocking chair, the eradle, or some of *Mrs. Winslow's* soothing syrup.

Well you have the baby at advantage—so pitch into it can. Vary its pleasures by alternately suckling and ph attempt no regularity in nursing, keep its stomach in ferment, and you lay the foundation of a dy-peptic const a miserable life.

In weaping a child, most people are guided by their their convenience, they will not allow nature to have a business at all, but will wean either before the first teeth after they have arrived at the biting point. Then instead of gradually, they wean all at once, by means of bitter aloes or conse other diug. Were the ladies weaned of their tea by being suddenly 'transferred to gall, how would they like it? or from hooped petticonts by being rolled like *Regulus* in a cask stuck full of *epikes*; yet the mode would be about as reasonable in one case as in the other.

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Most houses are so constructed that no fit room is retained for a numery." Indeed, in most cases, a common unventilated bed-room is the only convenience for the nume and three or four or more children. In this room there is perhaps one window, which is kept carefully closed and stuffed all winter, so as to keep out draughts ! If there be a chimpey, it is of course closed with a board, and the door is shut to keep in the noise. Here the poor delicate things grow up like stalks of celery, white and tender, and by the same process the exclusion of light and air. Then, as if the mother really wished to decrease the population, they are sent out to walk in this upper dresses and bare logs. How would mamma and papa like to be treated in the same way? .Would they not find it rather cool comfort to imitate their first parents in this climate ?. and yet their children are of the same fich and blood as themselves light This exposure of children is one reason of the great increase of consumption, and should be discountenanced by every thinking parent.

Children should aleep, eat, and exercise regularly; let them not

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loes or so ng suddenly ooped pettil of spikes; in the other. stained for a d bed-room our or more hich is kept aughts! If rd, and the icate things y the same the mother out to walk as and papa not find it is climate ?od as themhe great ind by every

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be tempted to do one or the other out of the regular course. On stence whatever let them "piece" the day through. The requires three or four hours to digest a meal, expects a intine of tasks, and between each task looks for a little . Yet how little are these requirements heeded. metmeats of alluring shape and color, with other palaare invariably added to the diet of our children, and en between meals. In this way the stomach, if not med by colored candies, is kept in a constant state of ehild becomes pale and sickly, and the triumph over aplete! Let a man place himself in the position of a Im awake some fine morning with a dose of castor oil his throat; let him then be washed and swathed in a h shall be stuck full of pins, one or two of which are thrust half an inch or so into his flesh, let him then swallow a dose of laudanum, and on the top of that be rocked to the verge of apoplexy in a oradle. After he has been asleep for a couple of hours from sheer exhaustion, let him be awakened by a pickled herring being thrust into his mouth, and see how he would like it !

But supposing, contrary to probability, that the child becomes a man, let us see what he does to renovate his constitution. Ten to one he has been manufactured on the forcing system, into a merchant or a professional man, and has taken up his abode in some densely populated quarter; in order to be near his office. Nature intended him to be broad chested and straight (backed, but thanks to early training and confinement he is narrow chested and stoops forward, the shoulder blades projecting like the wings of a bird. What his wife and daughter have accomplished through the agency of stays, he has accomplished through study and want of exercise. He don't see why his own lungs and the lungs of this wife and daughter should have room to play. He never played himself and don't believe in it. . True his wife and daughter admired the English cricketers last fall, and wished perhaps with Desdemona, "that Heaven bad made them such a man" as one of these. Doubtless they thought them a superior race, never considering that fresh air and

exercise might have conferred the same boon upon the husband and the brother. It is unfortunate that the lungs have any work but they have, and rather important work too, it being me to put the breach of life into the blood, which they are properly when cramped for space. By this compression men as well as women are rendered nervous and incomplete exertion and fall an easy prey to the Doctor and the Back

The ladies, however, do not allow us to suppose lost flesh. There is a fiction of attire which would speculative critic the belief that American women have should be in their waists, to bulge up some inches hi and some inches lower behind. But on application. doctor or milliner it will be found a groundless theory prompters behind the scenes, do not hesitate to assert that the the same all the way down. We have hinted at our gentleman's occupation, let us now see what is his recreation ! Does he go to the gymnasium, or the cricket field ? Nay, does he even play ten pins or base ball? No, none of these things move him, but about ten o'clock at night he goes out with his wife and daughter to spend the evening. Thinly olad and packed in a close carriage they arrive at their hosts, jump out on the cold pavement, in thin boots and shoes and run shivering into the house. Instead of keeping from the fire, as all chilled people should, they rush up to a red hot stove in a dressing room, from whence they descend to drink a cup or two of some hot liquid called tes or coffee. From thence they enter the dancing room, where, from want of ventilation, the upper such of the window has been let down, or the lower sash raised-"it is so very hot." Here a nice country nose will at once detect the nasty foul air, the it is mixed with cau-de-cologne. Now the gentleman ouddles some lady, and the ladies are cuddled by some gentlement. and they spin around the room like testotums./ Presently they take an ice-then a spann, then another dance, then a walk on the verandah "it is so very hot"-then a glass of wine, then another ice then maccaroonil, then supper. Sandwich, turkey, patties, champagne, blancinange, bonbon, champagne, sherry, champagne

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leman's occuhe go to the play ten pins ut about ten r to spend the hey arrive at ots and shoes from the fire, ot stove in a up or two of ey enter the pper sash of d-"it is so et the nasty e gentlemin e gentlemen; tly they take walk on the then another key, pasties, , ohampague

take, brandy cherries, wine, jelly, maccaroon, triffe, mottoes, de., de., do. In conclusion, perhaps, some old fashioned the health of the host and hostess. Certainly, why demon or rather Daimon, genius, or evil spirit of horribly, and mutters, yes, yes, all your very bad a m., with stomachs full of indigestion, splitting any or inflamed eyes, our company return home

in the house alone that ladies strive to thware their faces pale and have them

Makied o'er with the pale hue of thoughi,"

at that they pull down the blinds. They must, for exercise ! save the mark !-- put a veil between ces and the sun, and carry on high a great shield namto shield off his rays. They know better than to let the old god kiss them into color as he does the peaches. No, they will remain green fruit to the end of the chapter, and do all in their power eradicate what little of the rose their folly has left. They prefer being like the lilies, " which toil not, neither do they spin, yes I say unto you that Solomon in all his glory was not arrayed like one of these !" Do these fair, frail creatures ever read ! If they do, have they not seen that in times of pestilence, death, who loves the dark, strikes three victims on the shady side of a street, for one on the sunny side ? Did they ever see a house shielded from light and heat by trees, that was a healthy abode for man or beast? Never. Tet they will persist in keeping their blinds down for fear of fade curtains or carpets, whilst they themselves moulder into early graves.

We don't know which is the greater bonefactor, T. O. KERFER, who gives us pure water in abundance out of all sorts of impossible places, or RUTTAN, who gives us air. One thing is certain, that if these two reformers, the one with his fresh air and the other with his fresh water, are allowed to go on much longer, they will compet us to be more healthy in spite of ourselves. Will not some other sanitary reformer arise and give us " light in our dwellings." There is quite as much difference in the healthfulness of artificial natural light, as there is between the two luminaries in brilliancy. The light which comes down from the sky, no air out of our mouths, but it comes charged with subtle principles which have a purifying, vivifying powerful ally of health, and we make war against it. light contains no such blessings. When the gas half a dozen jets into your unventilated room, and gives light; when your candles become shorter and are burnt out,-Do you know what happens ? ... Not ceases to exist. Your camphene has left the lamp vanished out of being. Nor has it been converted in is a visible action; and candles are no more conv when they are burning, than breath is converted int The breath having produced speech, you are talking. the atmosphere ; gas, camphene, coal oil, and candles, having produced light, do the same. If you saw fifty wax lights shrink to their sockets during the past week in an unventilated ball room, yet, though invisible, they had not left you ; for their elements were if the room and you were breathing them ! Their light had been a sign that they were combining chemically with the air; in so combining they were changed, but they became a poison ! Every artificial light is, of necessity, a little workshop for the conversion of gas, oil, spirit or candle into respirable poison. You will therefore see that the more we have of such a process, the more need we have of While upon the subject of light, we may mention that ventilation. the best plan for weakening the eyes and necessitating the use of glames, is to read or work by a fluctuating light. By fluctuating light is meant a candle that requires snuffing, or a lamp that requires turning up. The joke of them consists in this : they begin with giving you sufficient light, but as the wick grows, the radiance lessens, and your eye gradually accommodates itself to the decrease ; suddenly they are snuffed, and your eye leaps back to its original adjustment, then begins another slide and another leap back, and in course of time, lamenting the premature approach of old sge, you invest in a pair of spectacles."

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We have said above, that T. C. Keefer, C. E., gives us good

We point to him specially, because he is the engineer of the and Hamilton water works, and we are glad to hear, for futdre capital of Canada, that he is to be employed blessing upon it. The KERFERS seem to be an We have SAMUEL KERFER, the real engineer, in the world and the largest Canal, the St. Law-Experior of Railways, and now Assistant where of the Board of Works. Then (where " Philosophy of Railways" set all the locator of the site of the VIGTORIA Surveyor of the Grand Trunk line—a very ultimately selected. Then we have another a member of the Australian Parliament— Onedian talent is honored even on the other side

digression. Water, water, is in every one's mouth -just where it ought to be when a man is thirsty; it rains from caven, it leaps out of the earth, it rolls about the land in rivers, it commulates in lakes, three-fourths of the surface of the globe is water, yet there are men unable to be clean. In a great city water, we are told, "is the maid of all work," has to assist our manufactures, to supply daily our sauce pans and tea kettles, cleanse our clothes, our persons, and our houses, provide baths, and flood away the daily refuse of the people. A man to be healthy ought to use at least a harrel of wat daily, in washing, bathing and drinking. and to supply water at the rate of more than Rome, 800 nitizen-that was excess. People in small town obtaining the luxury than those in large afford water works. They must theretowns, bel gh to cook, endigh to drink, and enough fore be conta to wet the corner of a towel. As for bathing, that seems to be out of the question in a country abounding in water ; hence one half the dyspepsia of those who, if they washed themselves, would enjoy good health.

Let us go back a thousand years, and look at the Persian aqua-

having prohts shrink to all room, yet, ients were in had been a : in so com-Every artifiersion of gas, therefore see d we have of mention that g the use of y fluctuating a lamp that s: they begin the radiance the decrease ;) its original ap back, and fold sge, you

rtificial

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gives us good

ducts, attributed to Nosh's great grandson,-at Cart Etruscans, Mexicans,-at what Rome did, and acknow man, in an unripe and half civilized condition, under art of health and comfort was very intimately com Look at the savage whereve of fresh water. you will find him a cold water man, " In savage washes himself so constantly, thet the other extreme. One would think the of the Platonic school and desmed the True, the temperance men have come to the internal arrangements, but who ever heard side application ! According to their ideas. should draw so many feet of water, and we registered on the stern. By the way, is it not a never thought of electing MAHOMET to the office arch, when his fundamental principles were "cla perance." Well, there is this, at least, to be said in favour of temperance societics they do not pass the bottle. They don't ask the friends to taste another bottle of that old port, made of doctored elderberry, or try a little more of that sugar of lead and gooseberry, with a body of rhubarb, under the name of champegne. The ordinary manufacture of choice wine for the people requires the following ingredients : for the original fluid, cider, or common cape, raisin, grape, parsnip, or elder wine; a wine made of rhubard for champagne, to these may be added water. A fit clock having been chosen, strength, color, and flavor may be Use is made of these materials : for color, burnt, incel. red sanders wood or elder berries, plain-s For nutty flavor, bitter almonds; for fruit spruce ; for fulness or smoothness, honey; for port wine incture of the seeds of raisins; for bouquet, orris root or subergis; for roughness or dryness, alum, oak sawdust, rhatany or kino.

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Of good wine, health requires none, though it will tolerate a little. If we take a glass or two of the pure thing, we may expect a little indigestion. But if the wine is bad, no one can tell to what disornot give rise. As for brandy, whiskey, gin, and other made from corn, they are emisently destructive to lifs. The readers drink such villainous compounds, it is not them. As, however, a large number of pine, we here insert the THET of pro-

ATED WINE.

drachms cream of tartar distilled water, till it be liquor is then filtered stopped phial. From inall glass filled with wine. the boulds, and deposit only a the boulds, and deposit only a the bould of the stopped phial of the stopped black or even muddy, if its color it have first a sweet and then an

other impregnation of that metal equally destructive. If, howwer, the dark color be of a blue cast, not unlike that of pale ink, we may expect the wine to contain iron in its composition. Lastly, if the wine be impregnated with copper or verdigris, it will deposit a sediment of a blattich grey color. This experiment ought to be made with a function test (which any druggist will put up) in the

> where would feel about as comfortable as whom Bode tells us that on his death bed

did the **Antonia beauty** of whom Bede tells us that on his death bed a ghost exhibited a scrap of paper upon which his good deeds were written—then the door opened, and an interminable file of ghosts brought in a mile or two of scroll, whereon his midecde were all

tar of temtask their of doctored scoreberry, The ordithe followape, raisin, for chamwing been Use is hineel, result.

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te a little. ot a little registered, and made him read them ! Fathers killed broken hearted, children brought up in sin and be make up a very pleasant sight for a man, who, in the be called upon to give an account before his the ories of "justice 1—justice, which is the the lowest pit of perdition, and mercy 1

But it is not our water question. Our before our readers, and length of days to the she inwardly. If people mus the most harmless intoxid its use is natural. Lan There is no doubt that its form cating properties. But few people not like to be made cheerful harmlensly, and whatever we cheerfalness produces health. We know very many old ladies, a inorning till night some young ones too, who keep up the 6 N. and to such an excess that a doctor ince th ander the effects of liquor. But we don't know that is does much harm except making them nervous and talkative. The should not however, be drunk hot, but warm. Het wind weaken the stomach and consequently injure has another Avintage over wine, beer, &c., it in fat. ind invaligaly produces jollity! For we refer the reader, if he be married ing bee, where ladies love to congre huge tes garden, where the plant is But what of milk ? Is it deserving of bles? Certainly. It is the food as well infant's appetite is all for milk. Not up of chalk, the brains of sheep, oxon and cows, flow, starch, trescle, whiting, sugar of lead, arnotto, nise, do. ; (see Mr. Bugg, of London, and Frank Lealie of New York) but good wholesome milk from

the country, or from your own cows in town.

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CHAPTER 'III.

"an infant's appetite is all for milk "; to that lamentably simple dist. advertisements and you most conspicuous of These are the prompel mature to be

m. Professor Croft

said to exist chiefly bunds which exactly burnen, and cascine. box: fat and starchy room. If a person take and to be wasted; if he take he wasted, and part of it the body obs sway as fat. The correct diet of a healthy man is eight parts of fuel food to one of nourishment. This preserves equilibrium, and suits therefore, an edult ; the child which has to become bigger as it lives, has a constant of nourishment. And so Dr. R. D. Thomas is the propor-

Nourishment. animal)..... 1 to 2 1 to 21 1 to 5 1 to 7 mimal at rest)..... 1 to 8 1 to 1 to 10 1 to 11 1 to 26 Bin 1 to 40

Now how abourd to give infants farinaceous food ; arrow-root, impices, and the like ; when we give only one part of nourishment

suchains ladies, and still night, under nuch harm d not howad weaken another of fat, tion

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ade up of oh, treacle, g, of Lonmilk from

Such diet is like putting leeches on a child, making in 26. and bloodless. A child, up to its seventh year, a nothing beyond bread, milk, water, ma fat, and fresh meat, for its dinner with a little well cooked w the ripest fruit. On food for breakfast. have beer, for not liquors, but there in trash made here. are food for neither child to be " good " mately art secures and vitiated oravin young women eat challe do so, but because it is a ohildren like plain sugar or tree ridge, it does not hurt the tooth. Look at the gentlemen a ladies of color down south ! Have they not got teeth of the sounder and whitest. Mr. RICHARDSON tells us of tribes among the Arabs of Sahara, whose beautiful teeth he lands that there are in the habit , of keeping about them a stick of angar which they bring out from time to time for a souff box for a pinch. Plain sugar, and stomach, in moderation; but sug 60 chalk, or verdigris, or any other rh t and hearing.

T

As for children of a larger fashion, all we can say is—the think of it—first comes a rich hot; then fish made indigestible by with more cayenne; next meat with all the same set with more cayenne; next meat with all the same set with ions of a second course; next celery, choose and any, next wine, oranges and almonds, and lastly olives and more wine—and they In other words, they have digged with their teeth, the second sec

> thy food benepment is by all ed, the more it o has watched heels over head nature demands ked in all its parts, k, vigorous and well e, pin a child down in e laws of quiet politeness. - Let I be high spirited, handem to school, let the , how very improper 1 dame, very improper. stance, she allows boys boreas, if she had the mit one sex to each bys and girls together msters, and be timid, The English women mificent forms and by constant exercise in alking, running, skipping keeps them in doors, making , but nature is allowed to have her er disciples with all the graces at her com-

nature have here

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way, and mand. How, dear reader, do you suppose the wife of one *konorable* eitizens, in Toronto, obtained charming complexion ? Do you perpetually, or by will folded before her, as suppose she has worsted birds, on has been brough plenty of exerciplenty of carrier with her husb She is, without her example is best results.

"But you are dined posed to have dined your dinner. And so WAIT ON APPETITE,

Toronto, February, 1860.

P. S.—Those who never be troubled by who follow no rules few hints for their gat

When you enter face as long as your there is life there is and endeavour to rule and cheerful converthe sick chamber, in the sick chamber, in the sick man's present silent thunder. If the root the weather be not too cold, the you may cheat the doctor out of a also; never mind them, but remember your



friend. Of

Plato of

r do anything to depress his spirits, mahter, let him have sunshine d it the most nutritious time, carry him fresh s of sight and smell, sthing pleasanter yes upm. Let the room, but ept cool, light, ne for the day ases frequently wholesome consequence of talk of religion he is d-d forthe Lord,-how astiseth us only with arguments read liver your views in a Don't preach at. want to kill him. several 'days in the t the earthy part of world, and is now Above all things, fles, don't bury Take the Bity. and do not let it fellow citizens. ed in a cemetery, crops, or that he ots or potatoes !

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Plato on



