



Many a man would better go without lunch at all than eat the hurried lunch which forms the noon-day meal of many a business man. Hasty eating, foods hard to digest, and no time allowed for digestion are the cause of many a case of stomach "trouble."

Disease of the stomach seriously threatens the health of the whole body and should be promptly cured. Dr. Pierce's Golden Medical Discovery cures diseases of the stomach and other organs of digestion and nutrition. It enables the perfect assimilation of food and the proper nutrition of the body on which physical strength depends.

"Nine or ten years ago my health became very poor, and in 1902 was so far gone that good doctors pronounced my case the worst they had ever treated," writes Mr. Harvey Phipps, of Florence, Ala. "I had acute stomach trouble, liver complaint, catarrh and was nervous to such an extent I could not sleep. I finally got three bottles of Dr. Pierce's Golden Medical Discovery and some 'Pellets.' Took them according to directions on the bottles, and in a few days noticed a decided improvement. I commenced to get more rest at night and could eat with pleasure, where formerly food was like chips to me. When I had used three bottles of the 'Discovery' I was a new man; could eat mince pie for supper, go to bed at seven P. M. and sleep until seven A. M. I am now working at my trade (carpentry), every day in all kinds of weather, and think if I had not taken your medicines I would now be under the sod."

Dr. Pierce's Pleasant Pellets cleanse the clogged system from accumulated impurities.

ANALYSIS OF THE AIR.

Number of New Gases Found in the Atmosphere—Different Compositions at Varying Heights.

The composition of the air was up to a few years ago a relatively simple affair. Two principal gases, nitrogen and oxygen, formed the greater part of the atmospheric mass; another gas, carbonic acid, only representing a few ten-thousandths of the total volume, and aqueous vapor, variable from one day to another, completed the fixed elements of the world's envelope. If to this combination we add a little ozone, condensed oxygen, in small and variable proportions, we have a complete statement of our knowledge, or, at least, that knowledge which sufficed for a student facing an examination, says a translation in Public Opinion from Nuova Antologia Rome.

To-day all is changed, for recently have been found a large number of new gases in the air. A few days ago Prof. Hann, of Vienna, gave a luminous exposition of the present view of science on this matter, and the conclusions of this famous meteorologist are very interesting. Prof. Hann stated that to the known gases, oxygen and nitrogen, or azote, we must add argon, neon, crypton, xenon and helium. Further, experiments have shown the presence of hydrogen, an element vitally necessary in the composition of water, but not considered up to the present in the make-up of the air. These gases have different physical properties, their density especially being very dissimilar, the lightest of all being hydrogen, compared to which helium is nearly twice as heavy, 1.97; neon, 9.9; azote, about 14; oxygen, about 16; argon, nearly 20; carbonic acid gas, 22; crypton, 41, and xenon, 64. With such differences in density it is evident that the gases are not present in equal proportions.

This view is radically different from the classified view, for we have heretofore believed—basing our conceptions on data obtained from balloon ascensions—that the composition of the air was the same, even at the greatest altitudes, when that conception is easily understood when it is recalled that we only took into consideration oxygen and azote, the density of which elements is about the same. With the knowledge we have to-day of the properties of the different gases, of their weight and their liquefaction temperature, we may determine approximately what the proportions should be at different altitudes, the proportions being stated by Prof. Hann as follows:

"On plains but slightly elevated above the sea, the composition of the air is 78 per cent. of azote, 21 per cent. of oxygen, .02 per cent. argon, 3-10,000th of carbonic acid, hydrogen, 1-10,000th, while the other three elements vary from a hundred-thousandth to a millionth part. At six miles the azote is 81 per cent. and the oxygen 18 per cent., argon and carbonic acid gas have diminished one-half, but hydrogen is a little more abundant, 3 1/2 liters to the ten thousand, the average temperature at this point being 18 degrees C. At 63 miles, with a probable temperature of 80 degrees C., the azote is only a memory, about 1.1,000th; there is no oxygen, 4-1,000ths of helium and 99 per cent. of hydrogen. The total pressure of all of these gases, which at the level of the sea support a column of mercury of 760 millimeters, at this height only raise 2-100ths of a millimeter of mercury."

Thus in the high regions of our atmosphere hydrogen, accompanied by a little helium, reigns supreme, while the

heavy gases which constitute the atmosphere in which we live and breathe exist only on the surface of the earth.

ARTIFICIAL PUMICE.

New Product Being Introduced to Take the Place of the Natural Stone.

Natural pumice is so common to volcanic eruptions that after such outbursts the surface of the adjacent sea have been covered for miles with a mass of the floating stones. The material is a kind of glass (obsidian) which, while in a molten state, has been rendered porous by the expansion of gas or steam in its substance. This familiar stone, says the London Chamber of Commerce Journal, has always been useful in the arts, but it is not a regular compound, for it will vary from grain and hardness sometimes in the same piece. This has retarded the introduction of an artificial stone which is designed to answer the same uses as natural pumice without its defects, and the new product is now being made for the market of the world. The elements are sandstone and clay, and there are no fewer than ten different grades of the stone manufactured. There is a hard and a soft kind, used for the leather, waxcloth, felt, and other industries; another kind for woodworkers and sculptors; a soft, fine-grained variety for polishing woods and for tin goods; another kind suitable for the treatment of lithographic stones; while other varieties of the new product are fitted for various duties.

Canal Systems of France.

Few who have not traveled in southern and central France know of her vast systems of canals and canalized rivers. Many persons spend months or years in Paris and know nothing of the great basins in that city from which the canals radiate, bringing all parts of France to the great sea of the world. These canals run in all directions, and these of the watersheds north and south. Through many of these streams you will see little tow boats puffing, grunting and lifting up a heavy chain from the canalized river bed, winding it round a drum and thus towing long lines of barges with a most economical expenditure of power.

GENIUS IN THE BUCKETSHOP.

New York Operator Got Onto a Fast Wire and It Brought Him a Boast.

"It takes two wide open eyes to keep the sharps from eating you up in this business nowadays," said the bucketshop man, relates the New York Sun. "Only yesterday I stopped a gap that was costing me money every day we had any activity in the market."

"You see, our Rochester office gets its quotations by a direct wire from New York, while our Buffalo office is on a circuit of a New York-Chicago wire, and is about two minutes slower. We have a direct wire from the Rochester office to the Buffalo office, as well as long-distance 'phone connection."

"The operator in the Rochester office got wise that his wire was two minutes faster than the Buffalo ticker and got to trading with the Buffalo office over the direct wire whenever movement of a stock was enough to give him a margin the best of it. This puzzled us for a while, for Rochester was taking all the profit out of our Buffalo sheets."

"Suppose you fired the Rochester operator?" remarked the listener.

"Not at all," said the bucketshop man. "I brought him down and installed him in the office here. Rochester is too small a town for the operation of such genius."

Underworld Exploration.

Prof. W. W. Watts, the English geologist, strongly advocates a new geological survey of England, which shall go as much to make known the subterranean world there as existing surveys have done to make known that which lies on the near surface. This demand grows out of the ever-recurring question of the approaching exhaustion of the British coal-fields. Prof. Watts says that there is still an area of concealed coal fields left, possibly at least as large and productive as those already explored, but to develop them work will have to be done at a depth of thousands instead of hundreds of feet. The first step must be systematic and detailed exploration of these invisible fields under the guidance of scientific principles.

The entire southern part of West Virginia is under a sheet of ice an inch thick, the effect of heavy sleets.

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LAND FRAUDS.

Prominent Officials are Indicted by Grand Jury.

Washington, Feb. 19.—As a result of the investigation of the alleged wholesale public land frauds in the western states, the grand jury of the District of Columbia today reported a joint indictment of conspiracy against John A. Benson and Frederick A. Hyde of San Francisco, Henry C. Di mond, of California, an attorney representing Benson and Hyde, and Joost H. Schneider, of Tucson, Ariz., an agent of Benson and Hyde. Bench warrants were immediately issued and Schneider was arrested in this city late this afternoon by Secret Service Agent William J. Burns. Schneider's bail was fixed at \$20,000. Benson, who had already been indicted here on the charge of bribery, is now believed to be in New York, while Hyde is thought to be in San Francisco.

The indictment is a voluminous document, and sets forth a number of transactions by which land, it is alleged, has been fraudulently acquired from the government in California, Oregon, Washington, Nevada and elsewhere. Most of these transactions are alleged to have occurred under the lien land law.

The scheme outlined in the indictment and alleged to have been practiced in these transactions was to obtain school or other lands by applications, assignments and purchases in names of a fictitious person or persons not really desiring or qualified to purchase them. Hyde and Benson paying them small sums for the land. The indictment charges them with making false reports in all these transactions.

In pursuance of this alleged conspiracy thus carried through by dummy applicants, certain unsurveyed tracts in the Olympia, Wash., land district, containing 3400 acres, were secured in the name of G. W. Clarke, Frederick A. Hyde, and John A. Benson, other lands specifically cited as secured including large tracts in the Vancouver land district in Washington and the Cascade range forest reserve in Oregon.

The arrest of other parties indicted is expected to follow. The action taken disposes of all the land fraud cases thus far presented to the local grand jury, but others may be submitted at any time. Similar proceedings are expected in other jurisdictions.

Henry O. Havemeyer, president of the American Sugar Refining Company, receives a salary of \$100,000 per year.

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