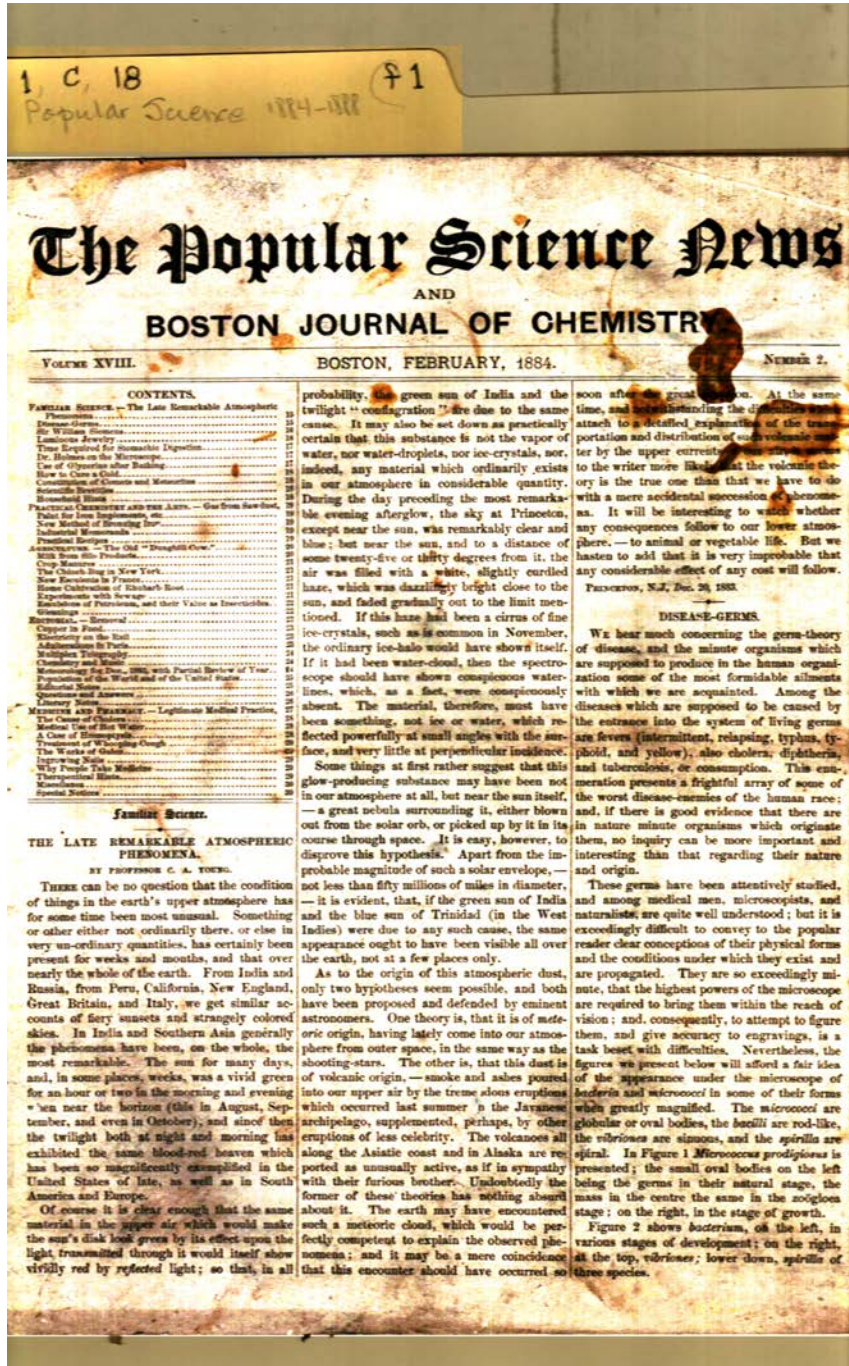


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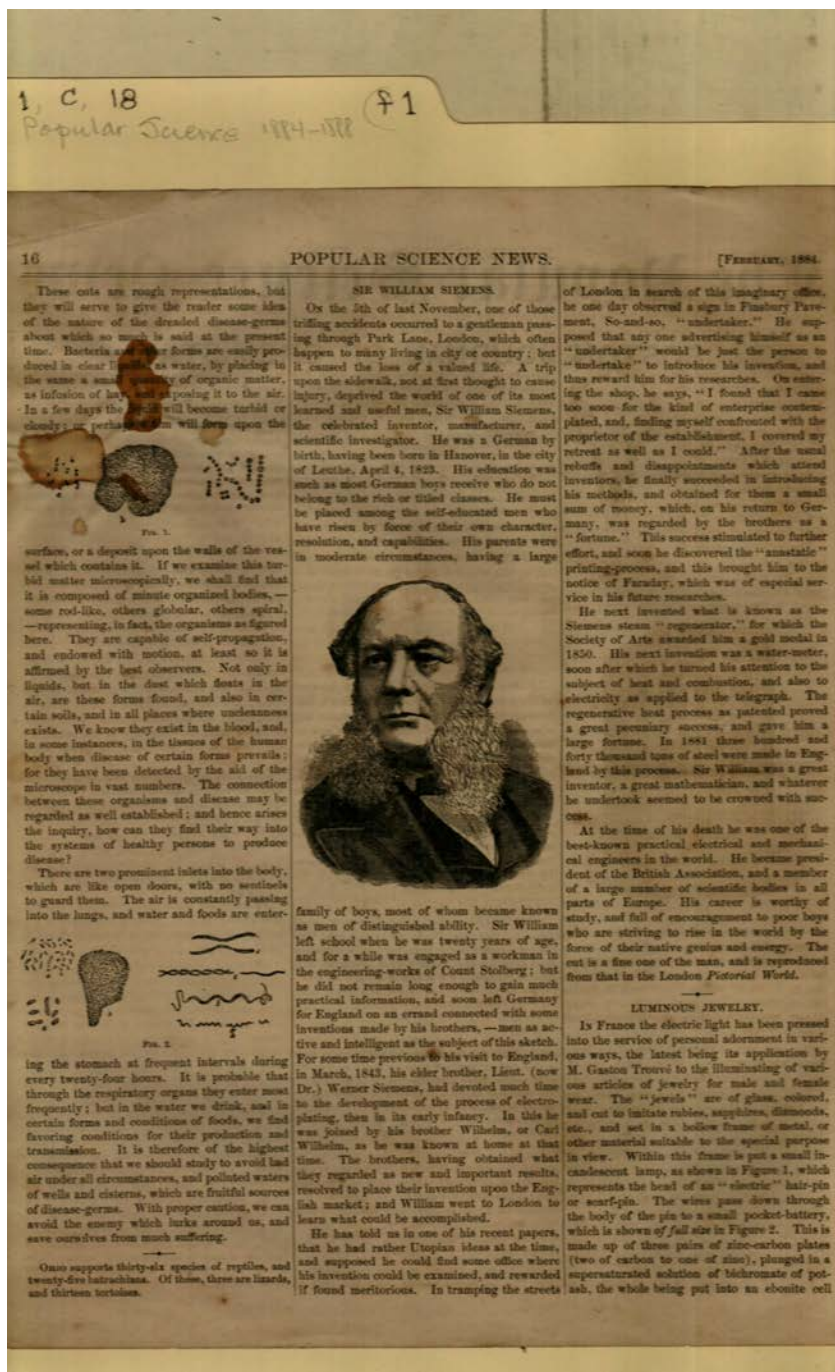
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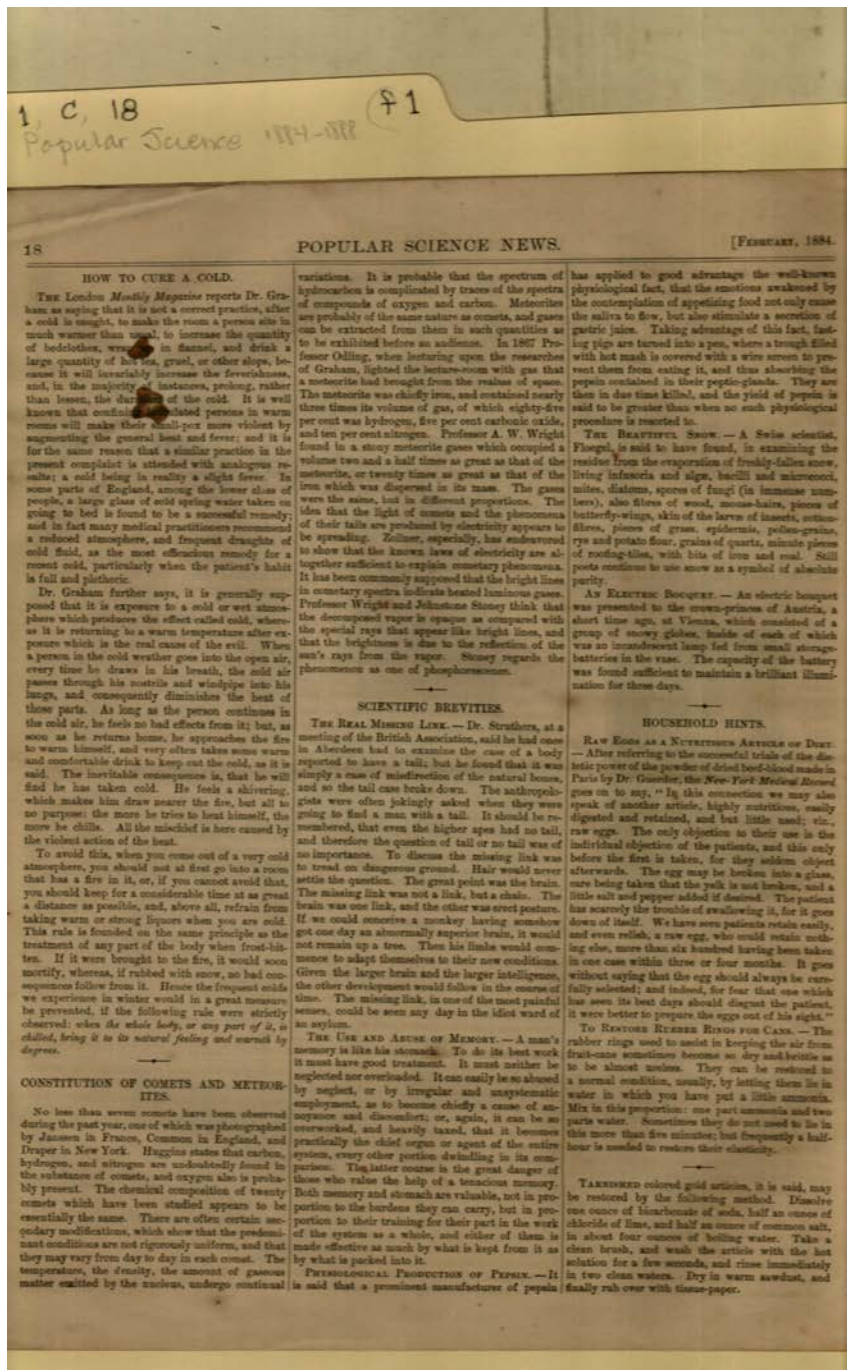
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**HOW TO CURE A COLD.**

The London *Medical Magazine* reports Dr. Graham as saying that it is not a correct practice, after a cold is caught, to make the room a person sits in much warmer than usual, to increase the quantity of bedclothes, wrap in flannel, and drink a large quantity of hot tea, gruel, or other staps, because it will invariably increase the feverishness, and, in the majority of instances, prolong, rather than lessen, the duration of the cold. It is well known that confined and heated persons in warm rooms will make their small-pox more violent by augmenting the general heat and fever; and it is for the same reason that a similar practice in the present complaint is attended with analogous results; a cold being in reality a slight fever. In some parts of England, among the lower class of people, a large glass of cold spring water taken on going to bed is found to be a successful remedy; and in fact many medical practitioners recommend a reduced atmosphere, and frequent draughts of cold fluid, as the most efficacious remedy for a recent cold, particularly when the patient's habit is full and phlegmatic.

Dr. Graham further says, it is generally supposed that it is exposure to a cold or wet atmosphere which produce the effect called cold, whereas it is returning to a warm temperature after exposure which is the real cause of the evil. When a person in the cold weather goes into the open air, every time he draws in his breath, the cold air passes through his nostrils and whistles into his lungs, and consequently diminishes the heat of those parts. As long as the person continues in the cold air, he feels no bad effects from it; but, as soon as he returns home, he approaches the fire to warm himself, and very often takes some warm and comfortable drink to keep out the cold, as it is said. The inevitable consequence is, that he will find he has taken cold. He feels a shivering, which makes him draw nearer the fire, but all to no purpose; the more he tries to heat himself, the more he chills. All the mischief is here caused by the violent action of the heat.

To avoid this, when you come out of a very cold atmosphere, you should not at first go into a room that has a fire in it, or, if you cannot avoid that, you should keep for a considerable time at as great a distance as possible, and, above all, refrain from taking warm or strong liquors when you are cold. If it were brought to the fire, it would soon scorchify, whereas, if rubbed with more, so had consequences follow from it. Hence the frequent colds we experience in winter would in a great measure be prevented, if the following rule were strictly observed: *wipe the whole body, or any part of it, is chilled, being it to its natural feeling and warmth by degrees.*

**CONSTITUTION OF COMETS AND METEORITES.**

No less than seven comets have been observed during the past year, one of which was photographed by Janssen in France, Common in England, and Draper in New York. Huggins states that carbon, hydrogen, and nitrogen are undoubtedly found in the substance of comets, and oxygen also is probably present. The chemical composition of twenty comets which have been studied appears to be essentially the same. There are often certain secondary modifications, which show that the predominant conditions are not rigorously uniform, and that they may vary from day to day in each comet. The temperature, the density, the amount of gaseous matter emitted by the nucleus, undergo continual

variations. It is probable that the spectrum of hydrocarbon is complicated by traces of the spectra of compounds of oxygen and carbon. Meteorites are probably of the same nature as comets, and gases can be extracted from them in such quantities as to be exhibited before an audience. In 1867 Professor Olling, when lecturing upon the researches of Graham, lighted the lecture-room with gas that a meteorite had brought from the ruins of space. The meteorite was chiefly iron, and contained nearly three times its volume of gas, of which eighty-five per cent was hydrogen, five per cent carbonic oxide, and ten per cent nitrogen. Professor A. W. Wright found in a stony meteorite gases which occupied a volume two and a half times as great as that of the meteorite, or twenty times as great as that of the iron which was dispersed in its mass. The gases were the same, but in different proportions. The idea that the light of comets and the phenomena of their tails are produced by electricity appears to be spreading. Zollner, especially, has endeavored to show that the known laws of electricity are altogether sufficient to explain cometary phenomena. It has been commonly supposed that the bright lines in cometary spectra indicate heated luminous gases. Professor Wright and Johnstone Stoney think that the decomposed vapor is opaque as compared with the special rays that appear like bright lines, and that the brightness is due to the reflection of the sun's rays from the vapor. Stoney regards the phenomenon as one of phosphorescence.

**SCIENTIFIC BRIEVITIES.**

**THE REAL MISSING LINK.**—Dr. Struthers, at a meeting of the British Association, said he had once in Aberdeen had to examine the case of a body reported to have a tail, but he found that it was simply a case of misdirection of the natural bones, and so the tail case broke down. The anthropologists were often jokingly asked when they were going to find a man with a tail. It should be remembered, that even the higher apes had no tail, and therefore the question of tail or no tail was of no importance. To discuss the missing link was to tread on dangerous ground. Hair would never settle the question. The great point was the brain. The missing link was not a link, but a chain. The brain was one link, and the other was erect posture. If we could conceive a monkey having somehow got one day an abnormally superior brain, it would not remain up a tree. Then his limbs would commence to adapt themselves to their new conditions. Given the larger brain and the longer intelligence, the other development would follow in the course of time. The missing link, in one of the most painful senses, could be seen any day in the idiot ward of an asylum.

**THE USE AND ABUSE OF MEMORY.**—A man's memory is like his stomach. To do its best work it must have good treatment. It must neither be neglected nor overloaded. It can easily be so abused by neglect, or by irregular and unsystematic employment, as to become chiefly a cause of anorexia and dyspepsia; or, again, it can be so overworked, and heavily taxed, that it becomes practically the chief organ or agent of the entire system, every other portion dwindling in its importance. The latter course is the great danger of those who value the help of a tenacious memory. Both memory and stomach are valuable, not in proportion to the burdens they can carry, but in proportion to their training for their part in the work of the system as a whole, and either of them is made effective as much by what is kept from it as by what is packed into it.

**PHYSIOLOGICAL PROPERTIES OF PEPPIN.**—It is said that a prominent manufacturer of pepin

has applied to good advantage the well-known physiological fact, that the emotions awakened by the contemplation of appetizing food not only cause the saliva to flow, but also stimulate a secretion of gastric juice. Taking advantage of this fact, fasting pigs are turned into a pen, where a trough filled with hot mash is covered with a wire screen to prevent them from eating it, and thus absorbing the pepin contained in their gastric-glands. They see them in due time killed, and the yield of pepin is said to be greater than when no such physiological procedure is resorted to.

**THE BEAUTIFUL SNOW.**—A Swiss scientist, Floegel, is said to have found, in examining the residue from the evaporation of freshly-fallen snow, living infusoria and signs, bacilli and micrococci, mites, diatoms, spores of fungi (in immense numbers), also fibres of wood, mouse-hairs, pieces of butterfly-wings, skin of the larva of insects, antennae, pieces of grass, epidermis, pollen-grains, rye and potato flour, grains of quartz, minute pieces of roofing-tiles, with bits of iron and steel. Still poets continue to use snow as a symbol of absolute purity.

**AN ELECTRIC BATTERY.**—An electric battery has been presented to the crown-prince of Austria, a short time ago, at Vienna, which consisted of a group of snowy globes, inside of each of which was an incandescent lamp fed from small storage-batteries in the vase. The capacity of the battery was found sufficient to maintain a brilliant illumination for three days.

**HOUSEHOLD HINTS.**

**RAW EGGS AS A NUTRITIOUS ARTICLE OF DIET.**—After referring to the successful trials of the diastolic power of the pancreas of dried beef-blood made in Paris by Dr. Guerber, the *New-York Medical Record* goes on to say, "In this connection we may also speak of another article, highly nutritious, easily digested and retained, and but little used; viz., raw eggs. The only objection to their use is the individual objection of the patients, and this only before the first is taken, for they seldom object afterwards. The egg may be broken into a glass, care being taken that the yolk is not broken, and a little salt and pepper added if desired. The patient has scarcely the trouble of swallowing it, for it goes down of itself. We have seen patients retain easily, and even relish, a raw egg, who would retain nothing else, more than six hundred having been taken in one case within three or four months. It goes without saying that the egg should always be carefully selected; and indeed, for fear that one which has seen its best days should disgust the patient, it were better to prepare the eggs out of his sight."

**TO RESTORE ELASTIC RINGS FOR CANS.**—The rubber rings used to assist in keeping the air from fruit-cans sometimes become so dry and brittle as to be almost useless. They can be restored to a normal condition, usually, by letting them lie in water in which you have put a little ammonia. Mix in this proportion: one part ammonia and two parts water. Sometimes they do not need to lie in this more than five minutes; but frequently a half-hour is needed to restore their elasticity.

**TANNED colored gold articles.** It is said, may be restored by the following method. Dissolve one ounce of bicarbonate of soda, half an ounce of chloride of lime, and half an ounce of common salt, in about four ounces of boiling water. Take a clean brush, and wash the article with the hot solution for a few seconds, and rinse immediately in two clean waters. Dry in warm sunlight, and finally rub over with tissue-paper.

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Household Hints  
 How to Cure a Cold

Scientific Brevities

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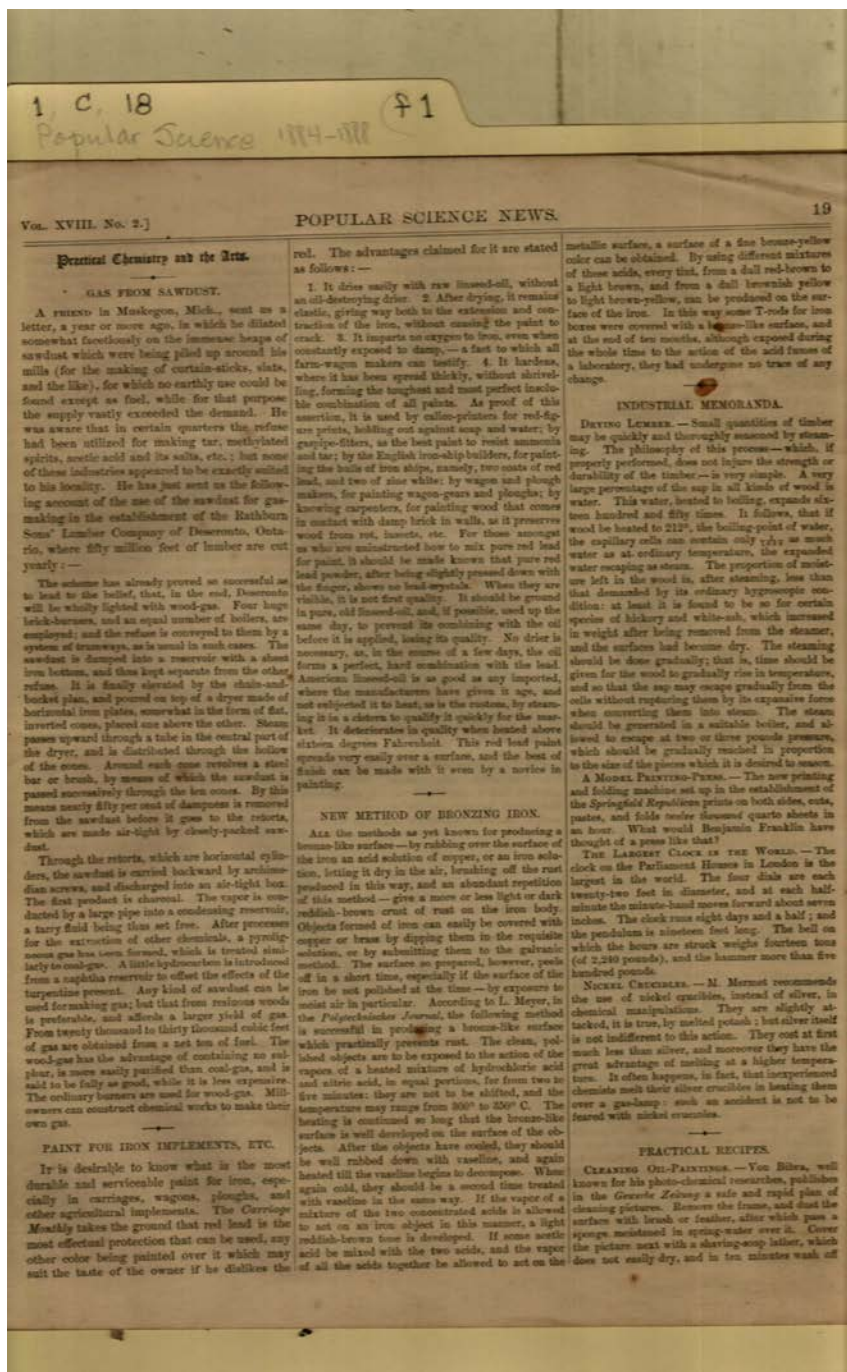
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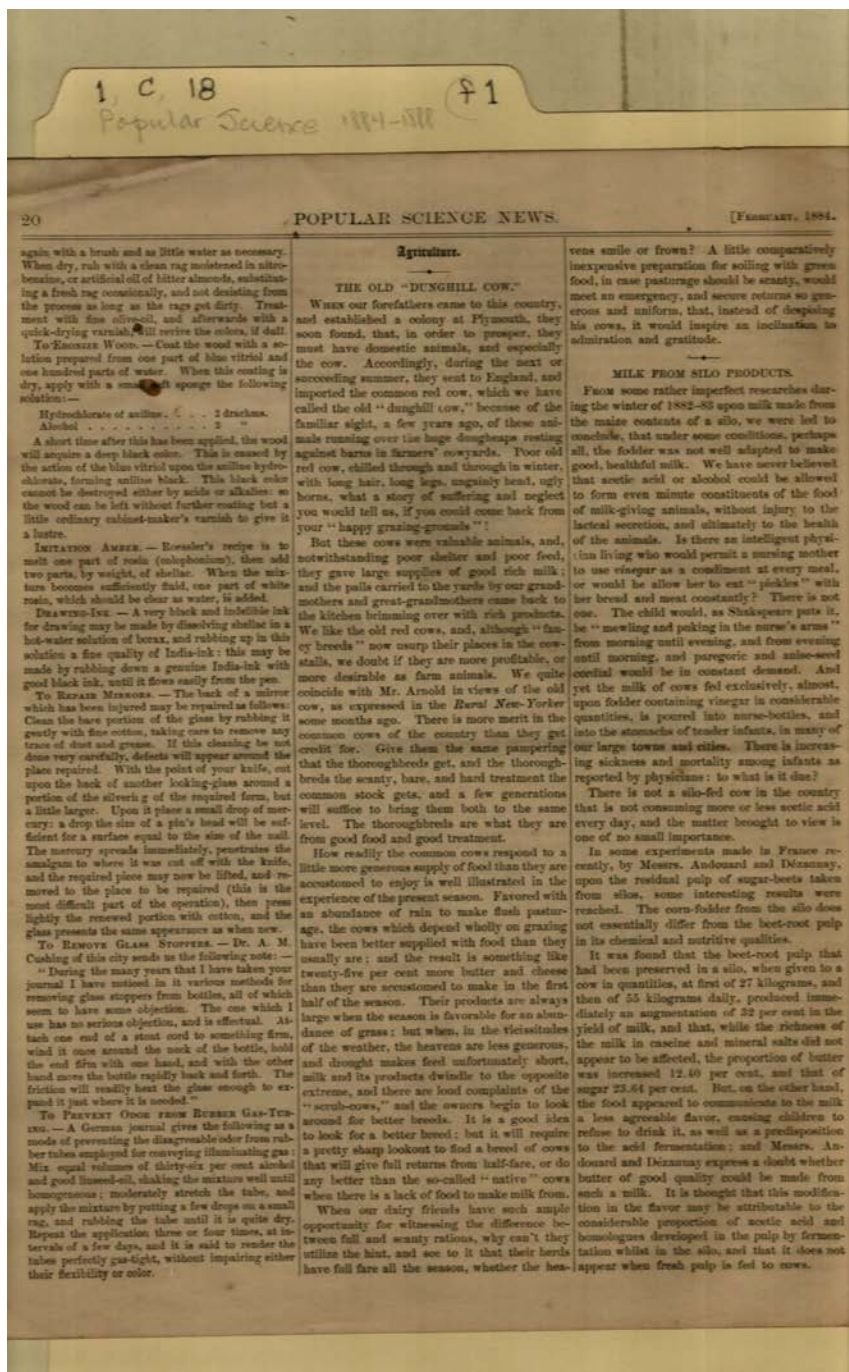
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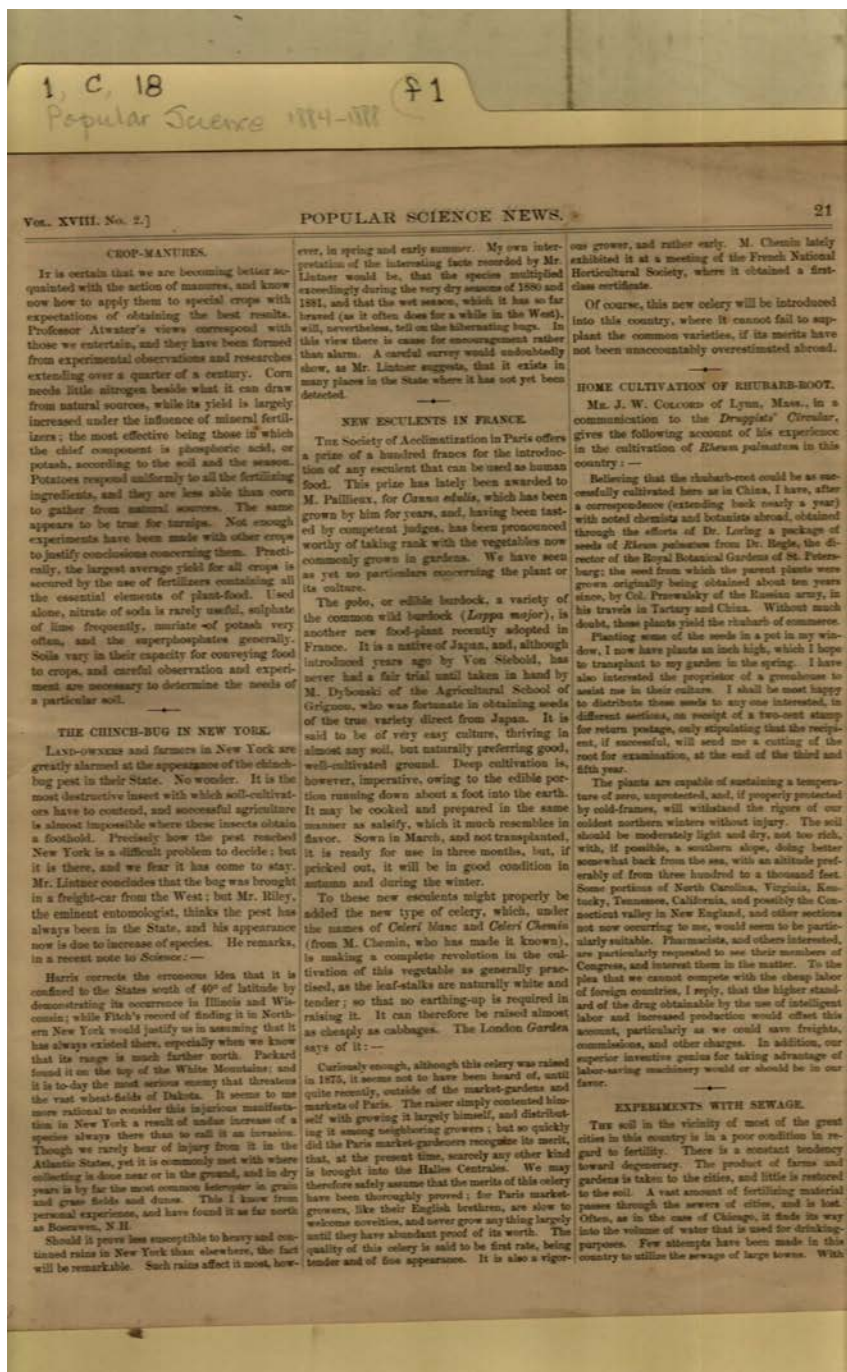
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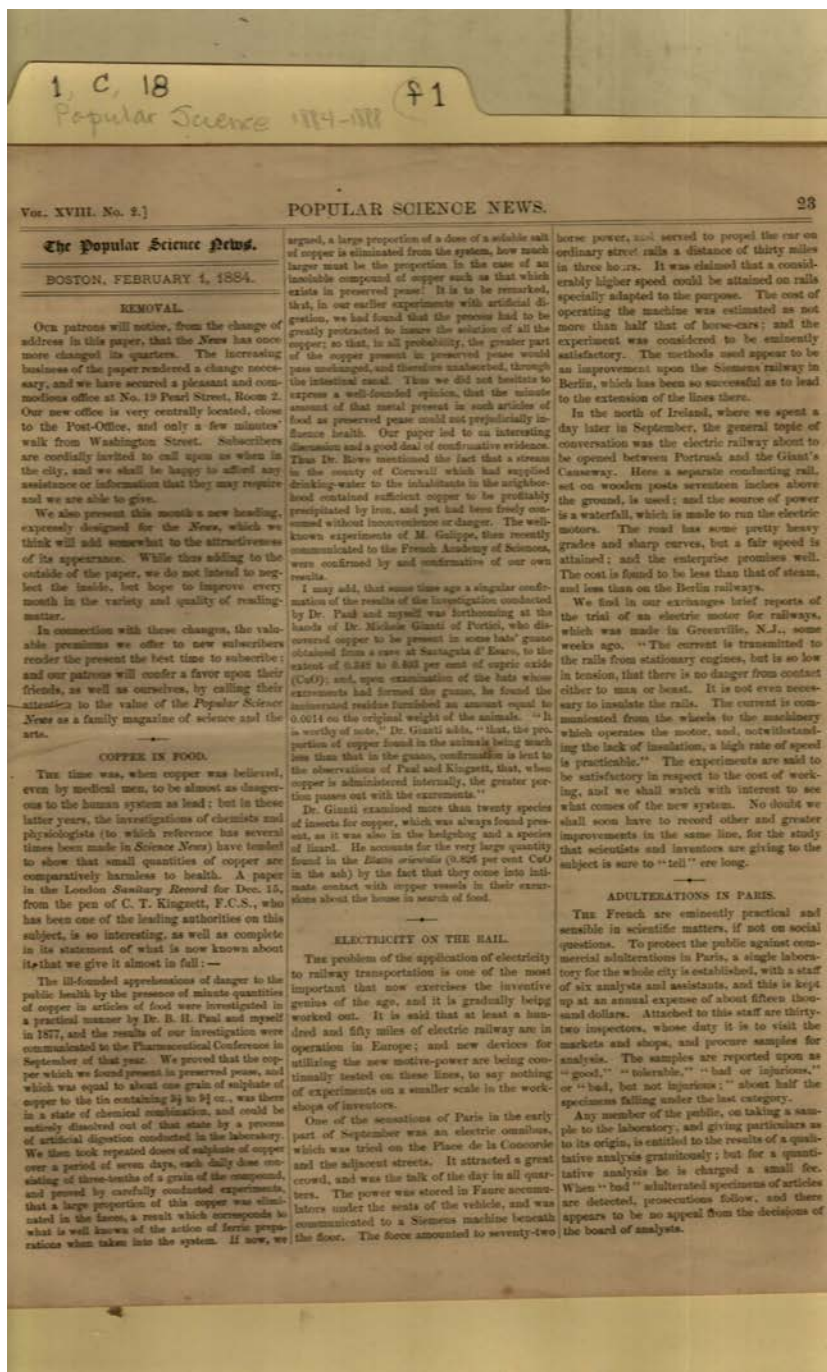
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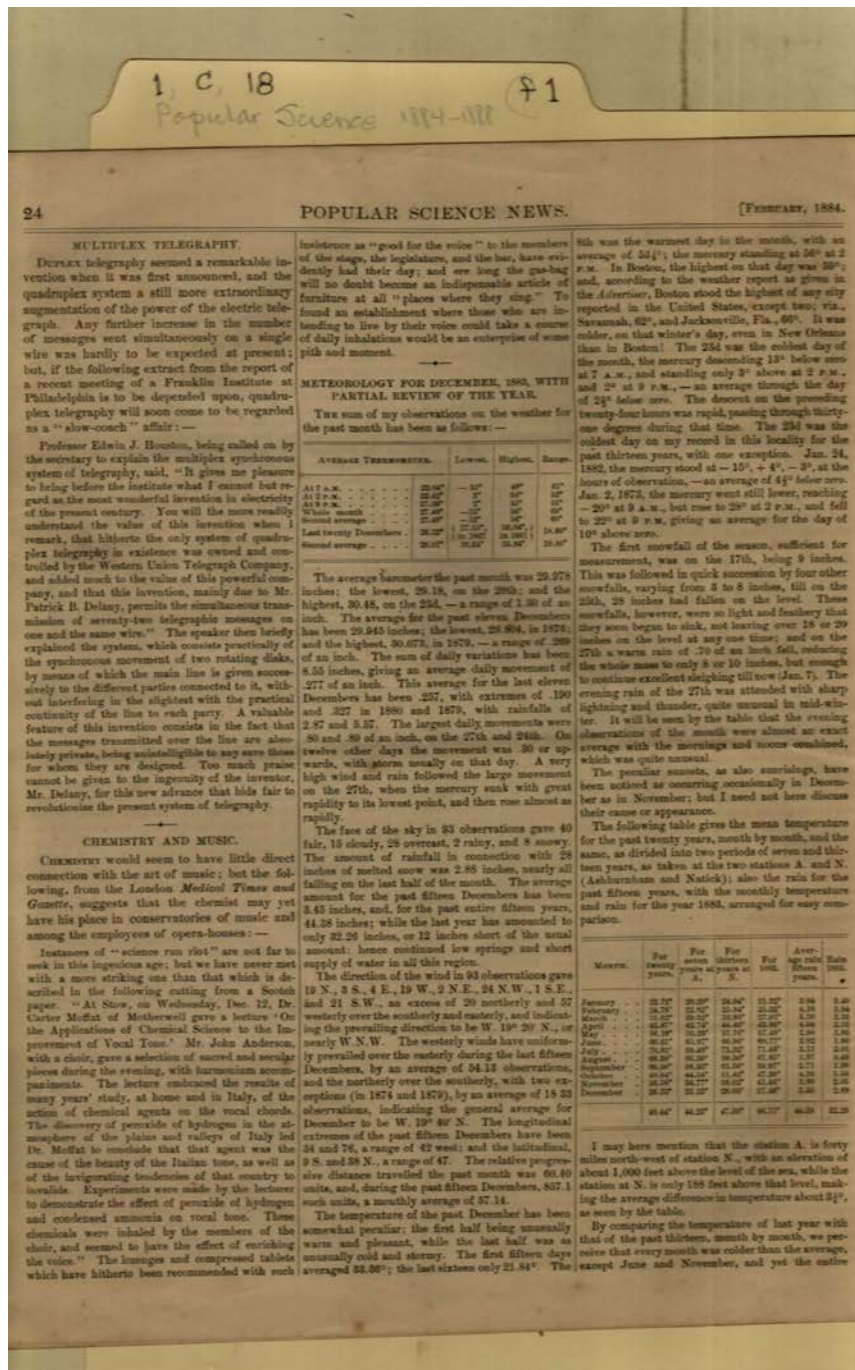
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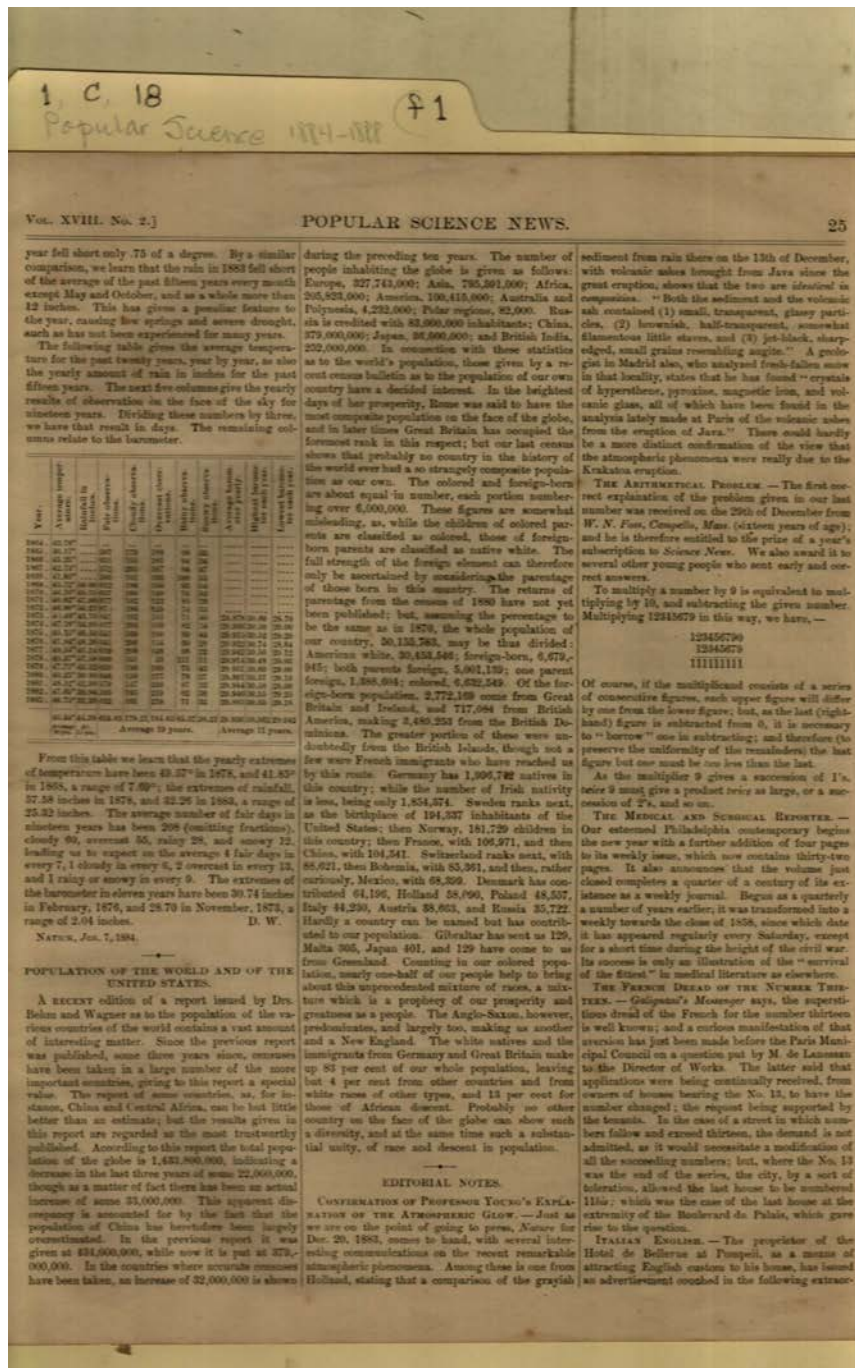
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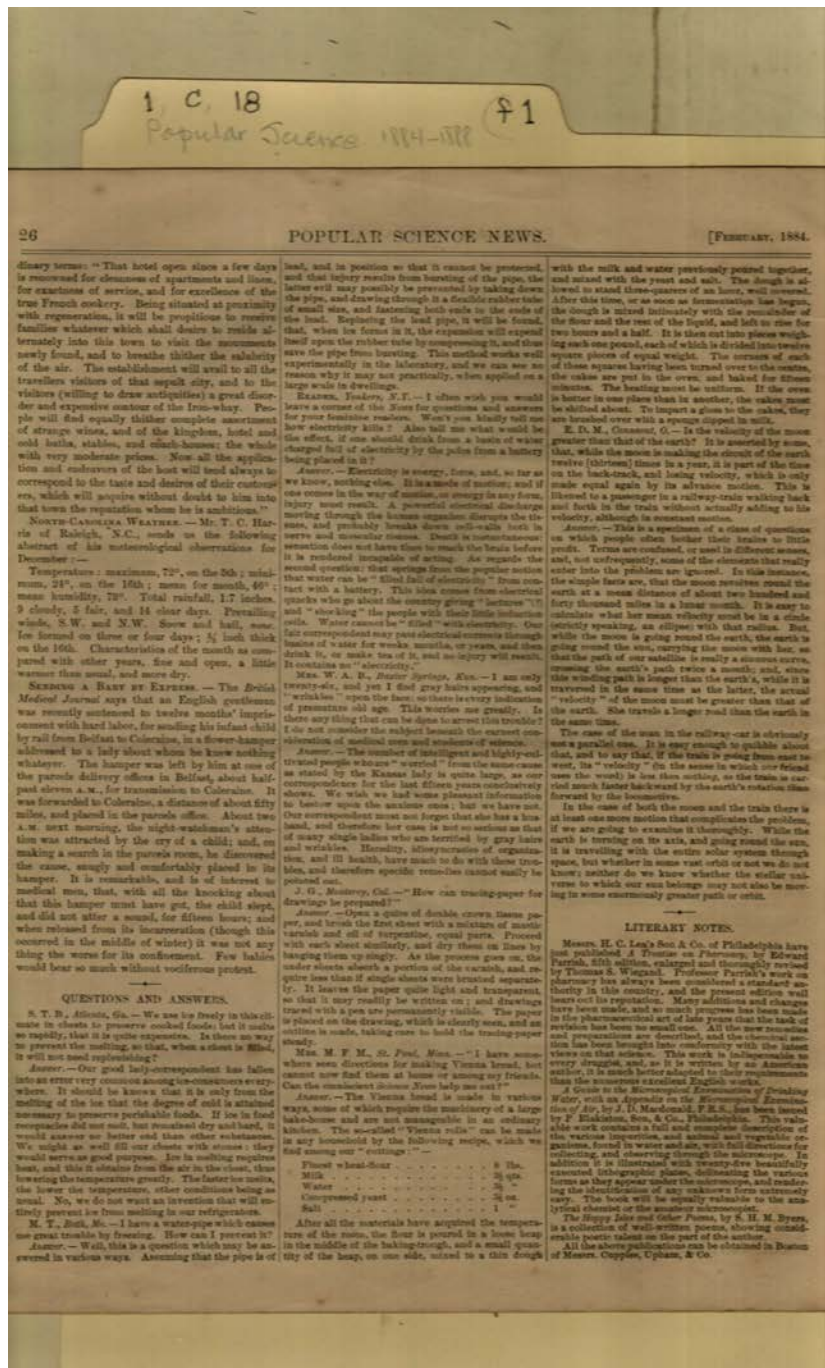
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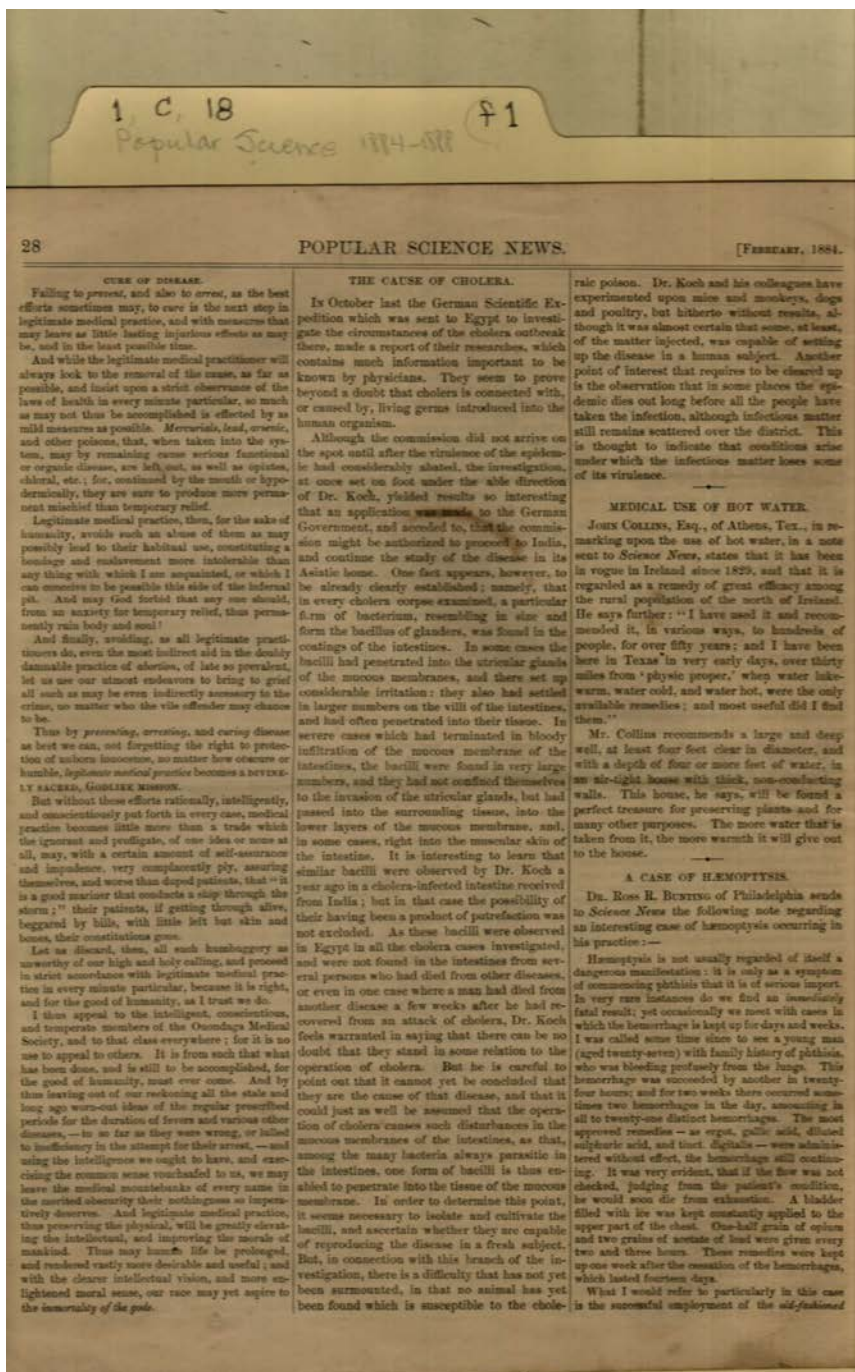
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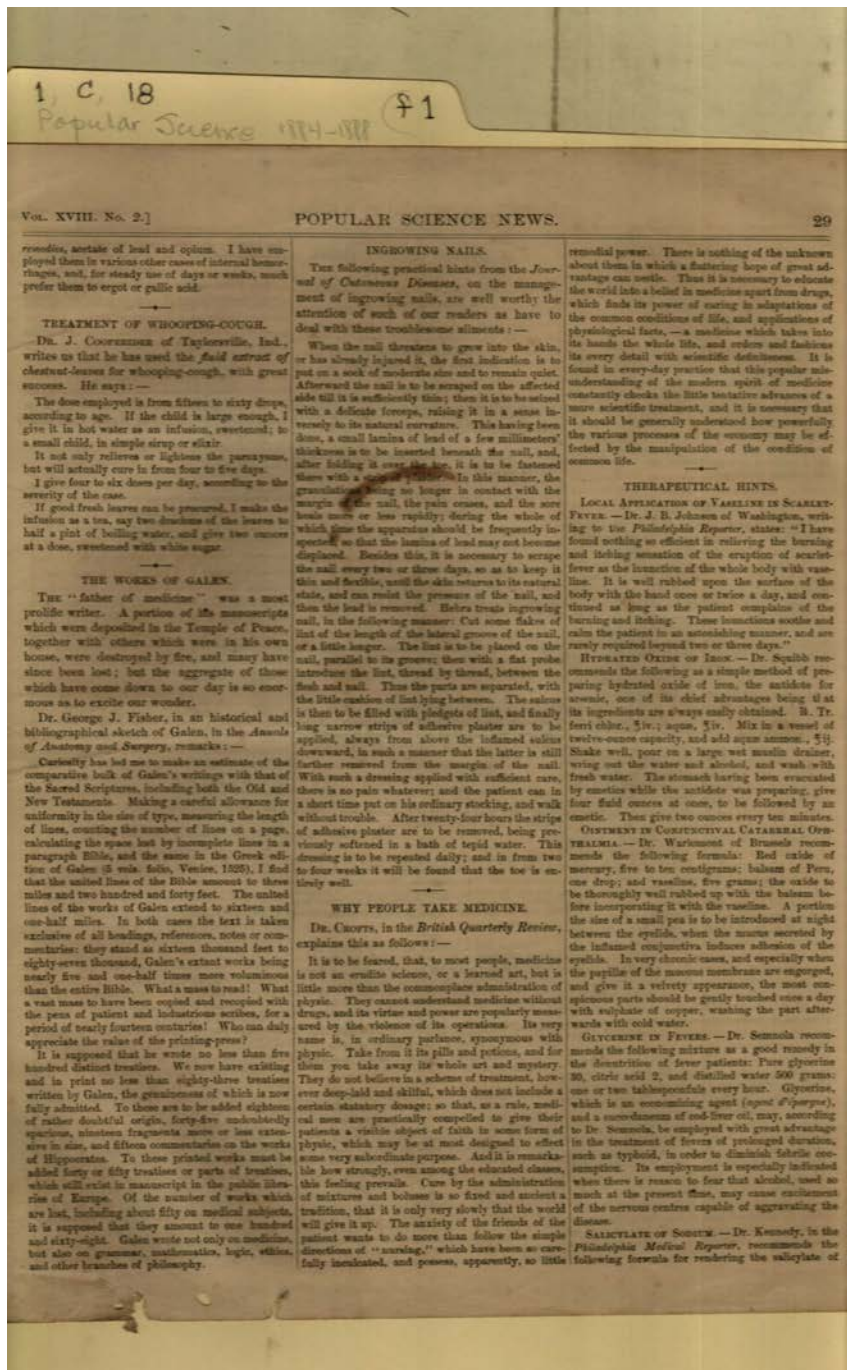
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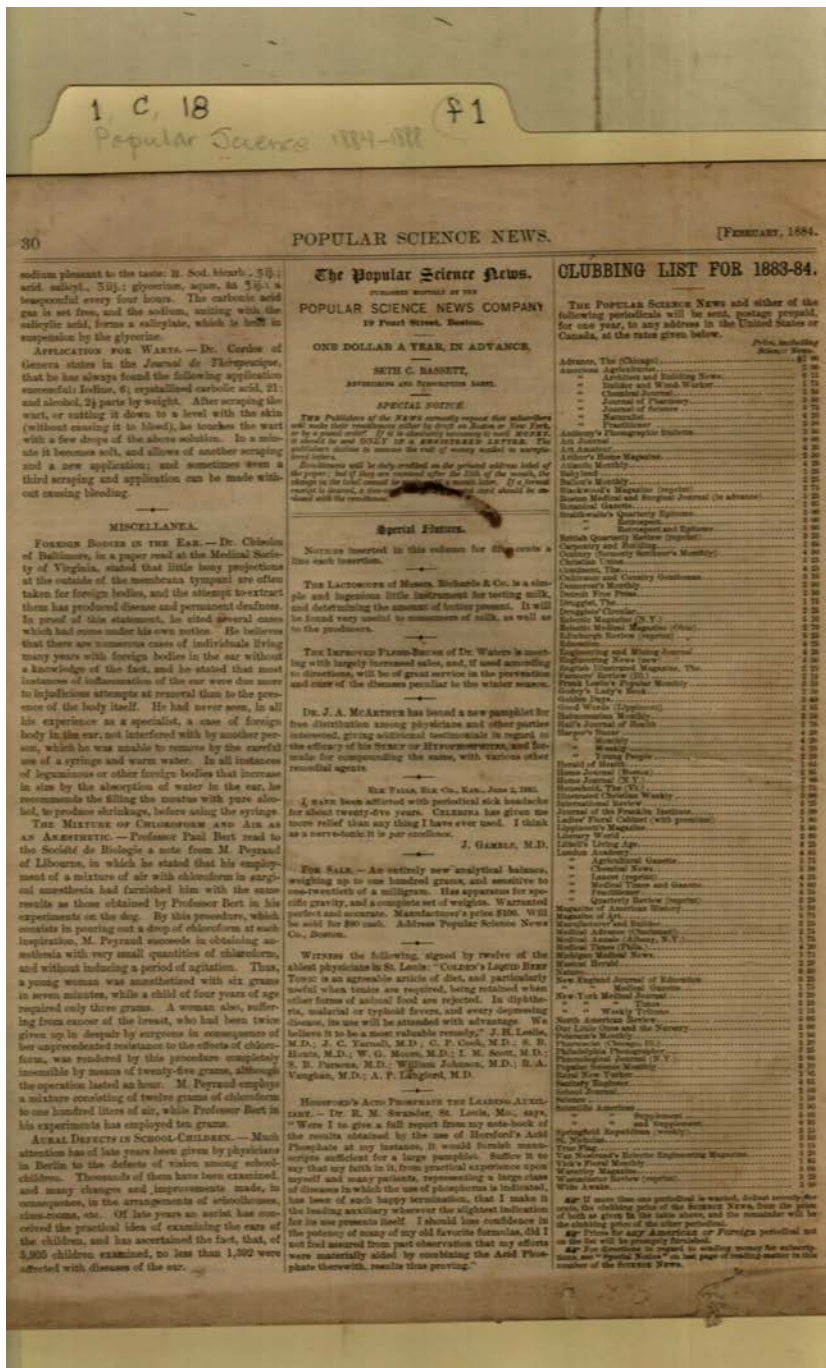
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AND  
 BOSTON JOURNAL OF CHEMISTRY.

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**Familiar Science.**

**CHARLES DARWIN.**

THE cut presented on this page affords an admirable view of a great and noble man,—a man, who, perhaps, contributed more than any other to make the nineteenth century illustrious. However scholars may differ in regard to the scientific views promulgated by Mr. Darwin, all agree that a more learned, kind, generous, unselfish man has never existed in any age.

It has been said by those intimate with Mr. Darwin, that no one could converse with him without being reminded of Socrates; but certainly our ideal of the ancient philosopher supplies a form of head and face in striking contrast with that now under the eye of the reader.—Mr. Huxley states "that there was the same desire to find some one wiser than himself, the same belief in the sovereignty of reason, the ready humor, the same sympathetic interest in all the ways and works of man."

There is this difference between the ancient and modern philosophers: Socrates turned away from the problems of nature as hopelessly insoluble; Mr. Darwin attacked them with a vigor and insight almost supernatural. The field in which his great mind loved to wander was unlighted; science had supplied no lamps to guide the way; he was an original explorer.



Although others had entered the darkness, they emerged from it without bringing charts or lines to aid future explorers.

Mr. Darwin possessed a vivid imagination and great speculative powers, but he minimized these qualities under proper subjection. Although it may be said that the greatest of his labors rest upon a basis of speculation, yet all students must admit that there is not a stone in the superstructure he raised which they are ready, at the present stage of inquiry, to attempt to tear away with expectation that the superstructure will fall.

The modest, patient toiler built slowly, and, although laboring in the darkness, he was careful to cement every stone with mortar which he was confident would be enduring. If, after a careful examination of the reasonings and conclusions of the great thinker and investigator,

we are compelled to render the old Scotch verdict, "not proven," our profound respect for the man is in no respect lessened, or our confidence in his honesty and vast capabilities impaired.

It awakens almost a painful sensation when one reflects upon the unintermitting, painstaking labors of Mr. Darwin. He was ceaselessly at work, and no event or incident escaped his keen observation,—at one time in his greenhouse, conducting experiments upon vines and shrubs, at another among rock specimens in his well-stocked rooms, at another intently watching the movements and habits of insects and animals. His mind knew no rest. His gigantic labors were conducted under no ordinary disabilities, physical and mental, for he was tormented with dyspepsia, which gave rise to gastric pains and fearful headaches. To these evils he seldom alluded, only to his most

intimate friends. He was the same kind, genial companion when mocked with pain; and his duties were never neglected, no matter how great his sufferings. His correspondence was immense; and seldom did one fail of a response, when letters—even of no special importance were sent to him. We well remember the satisfaction exhibited by a young naturalist in this country, who had addressed to him a note upon some topic, and received a brief but exceedingly kind reply written with his own hand.

His genial, simple, and generous nature endeared him to all with whom he was brought in contact; and those who were privileged to be in intimate association and companionship were charmed by his animated conversation and the infinite variety and accuracy of his information.

The decease of such men as Darwin, Siemens, and Faraday, is an event of no ordinary interest when considered in their relations to the life beyond. The spiritual existence which merges into the physical, or overlaps it, at the hour of dissolution, must open up to such minds vastly clearer views of nature, and the mysteries which environ us here. Great or phenomenal minds cannot be dwarfed by so simple and unimportant a change as physical death; indeed, such a change must remove obstructions which attach to the physical organism, and which darken nature as by an eclipse. To a vast majority of minds this eclipse is almost total; but to Darwin and others the night-side of nature was not without its moon and stars, by which vision was aided. In the uncertain light, even they could see things only in outline, and therefore mistakes must occur in some of their conclusions. If in the unseen world many of the mists and shadows are removed, how great must be the delight of philosophers at their exaltation and the opening to them of sublime truths, of which they were incapable of forming conceptions in the lower world of matter! How impossible it is for thinking, reasoning men to believe that such minds are lost in darkness when the heart and lungs cease to perform their functions, and the body becomes subject to chemical change!

In the noble form and massive brain of Darwin nothing was contained, when deposited in its last resting-place, but matter; and it was no more refined or exalted than that of the most ignorant and debased of the race, indeed, no more than the organized structure of the animals and insects which were the objects of his constant study. But of the mind, the spirit, we are forced to form different conclusions. This immaterial, undying principle, as actual, as real, as the body, was of a higher nature than that of most others, and it must occupy a higher

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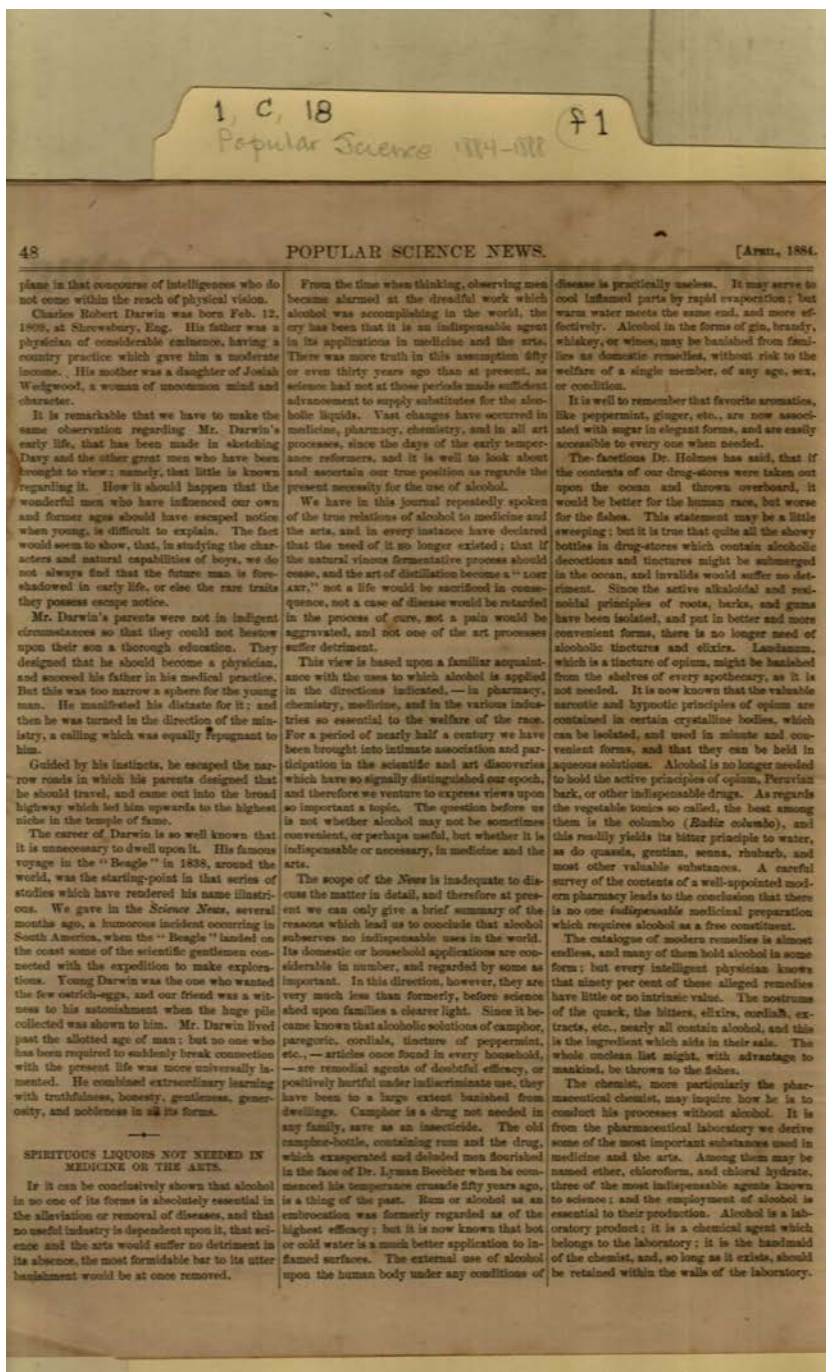
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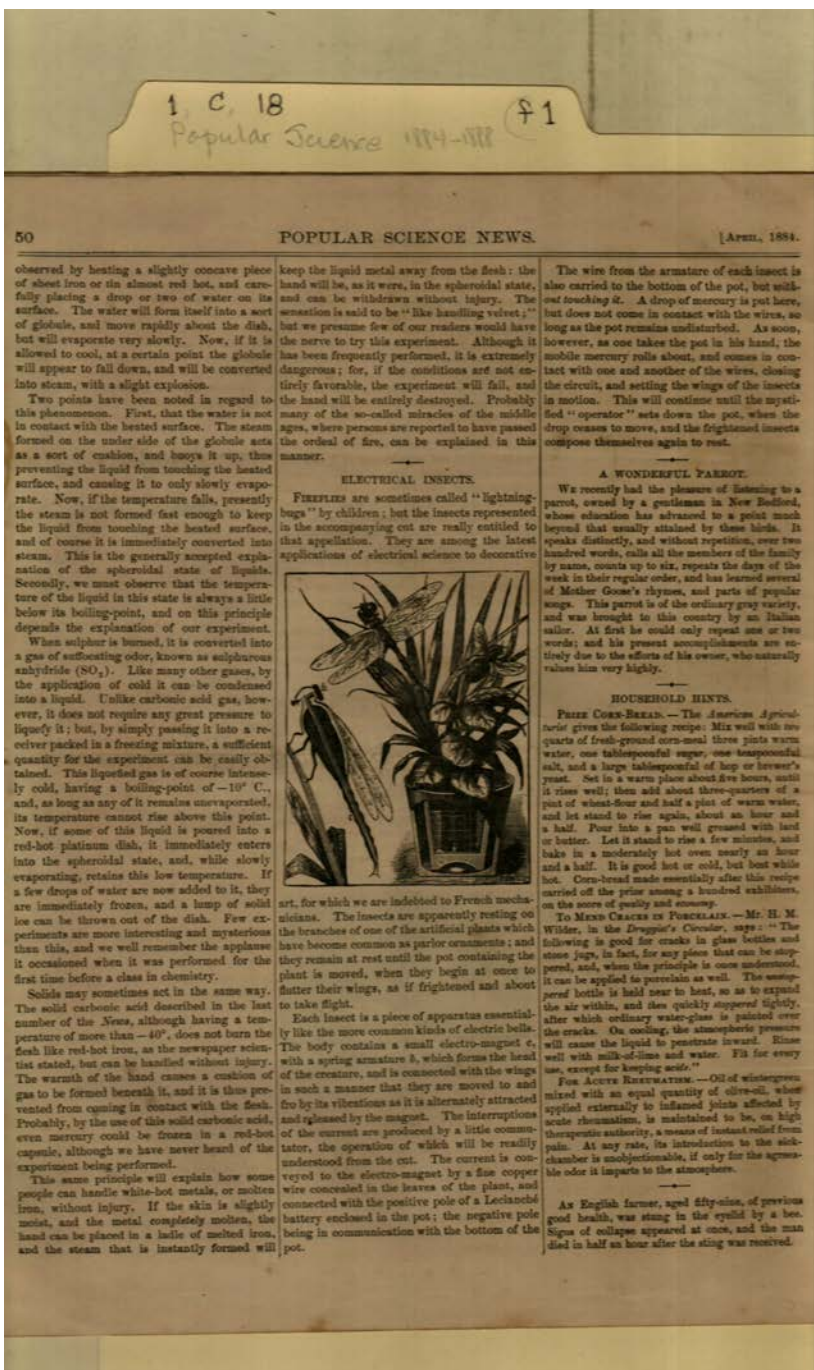
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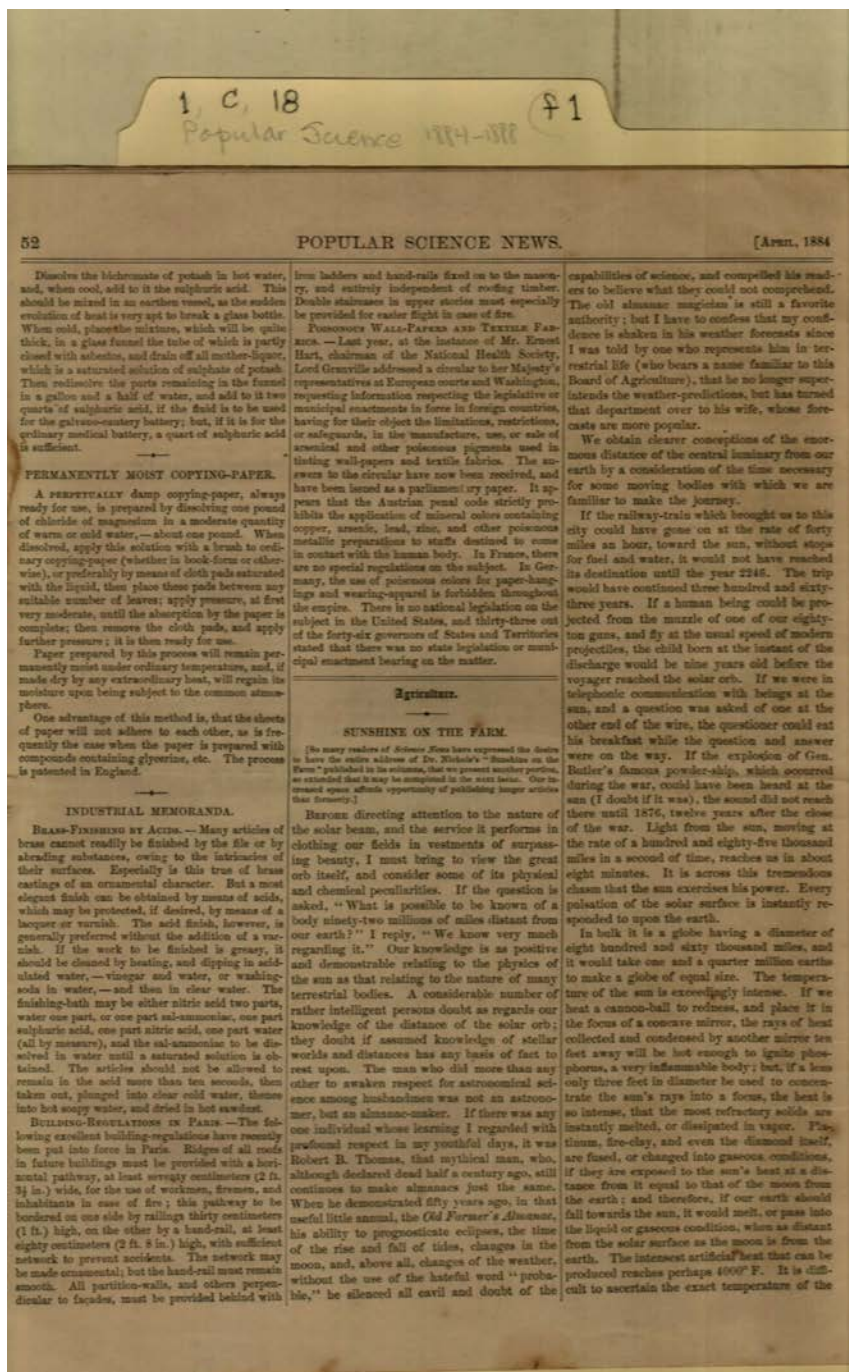
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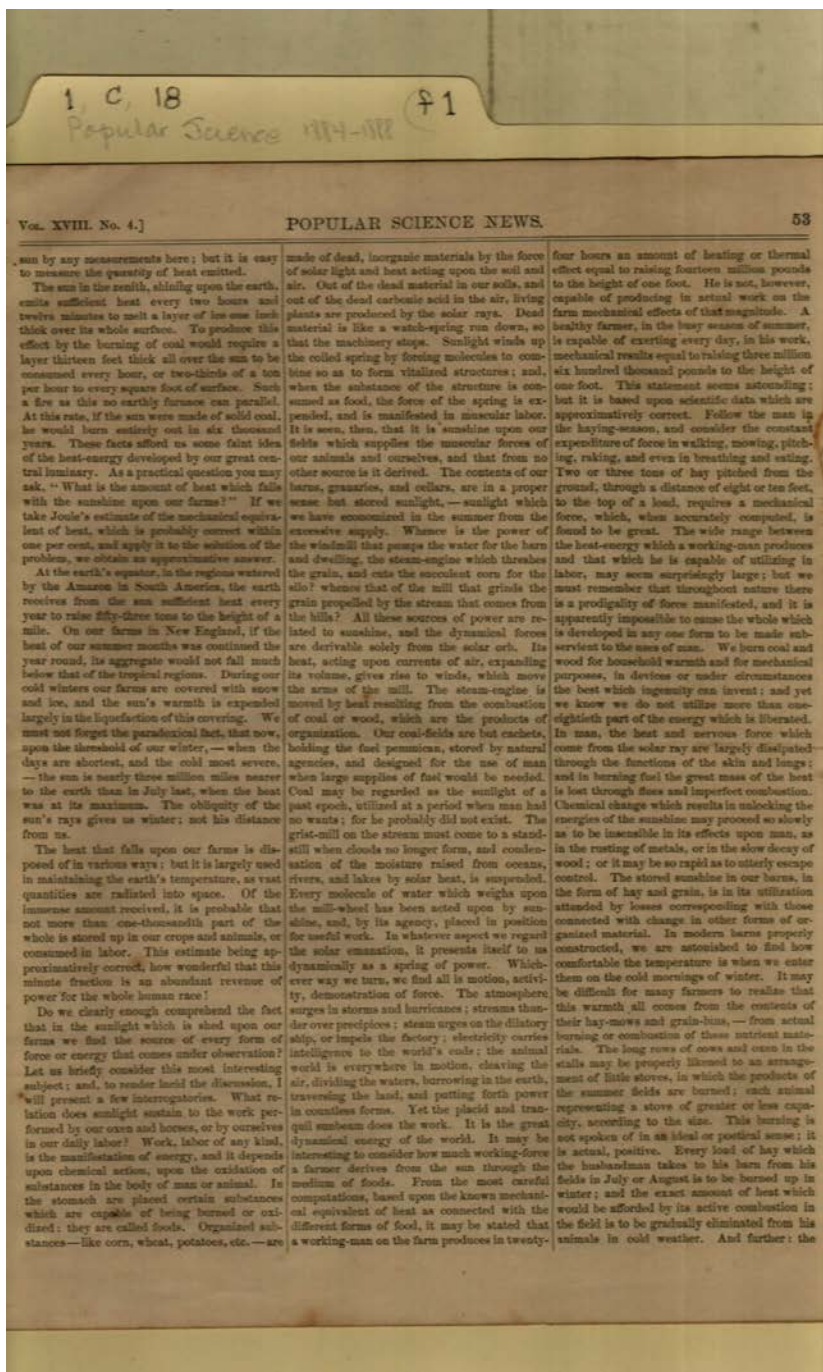
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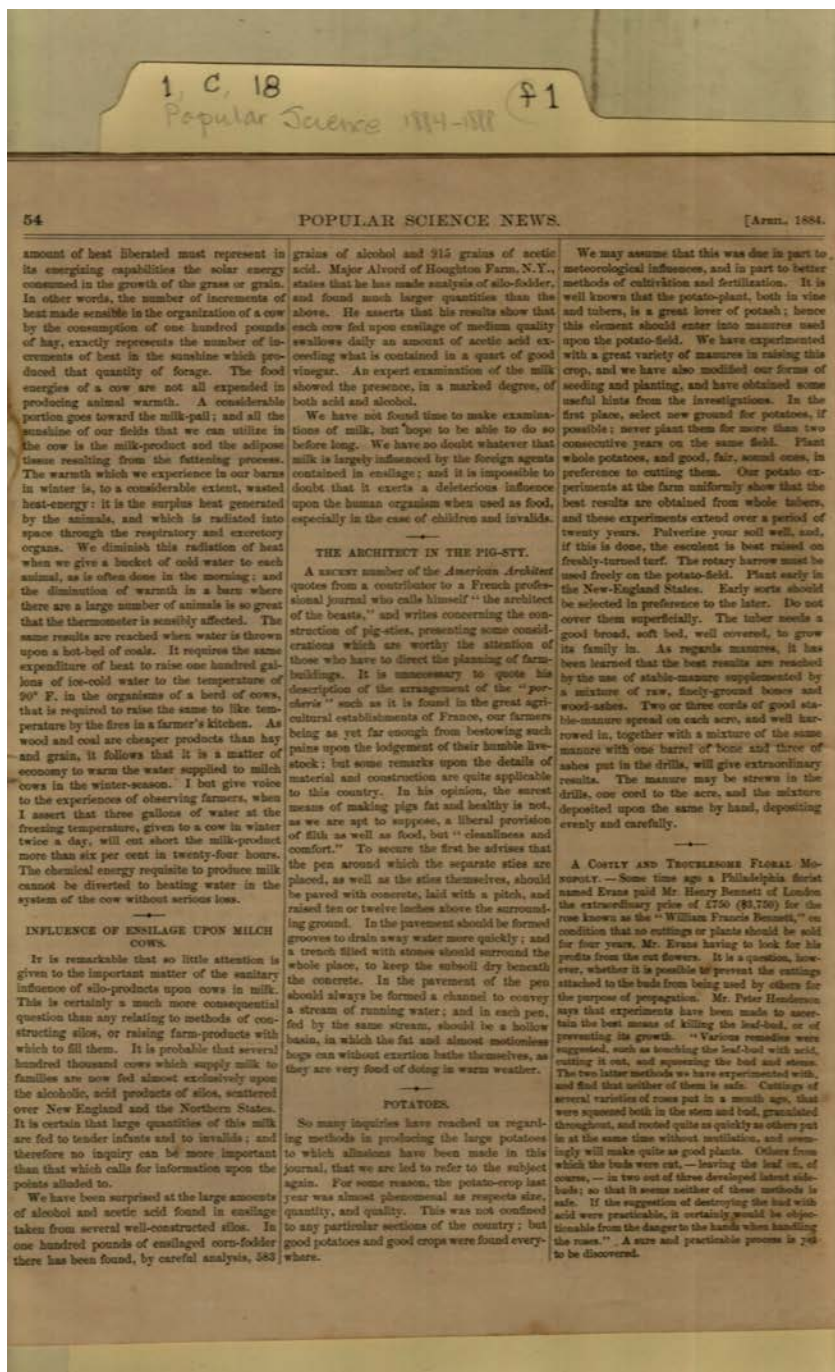


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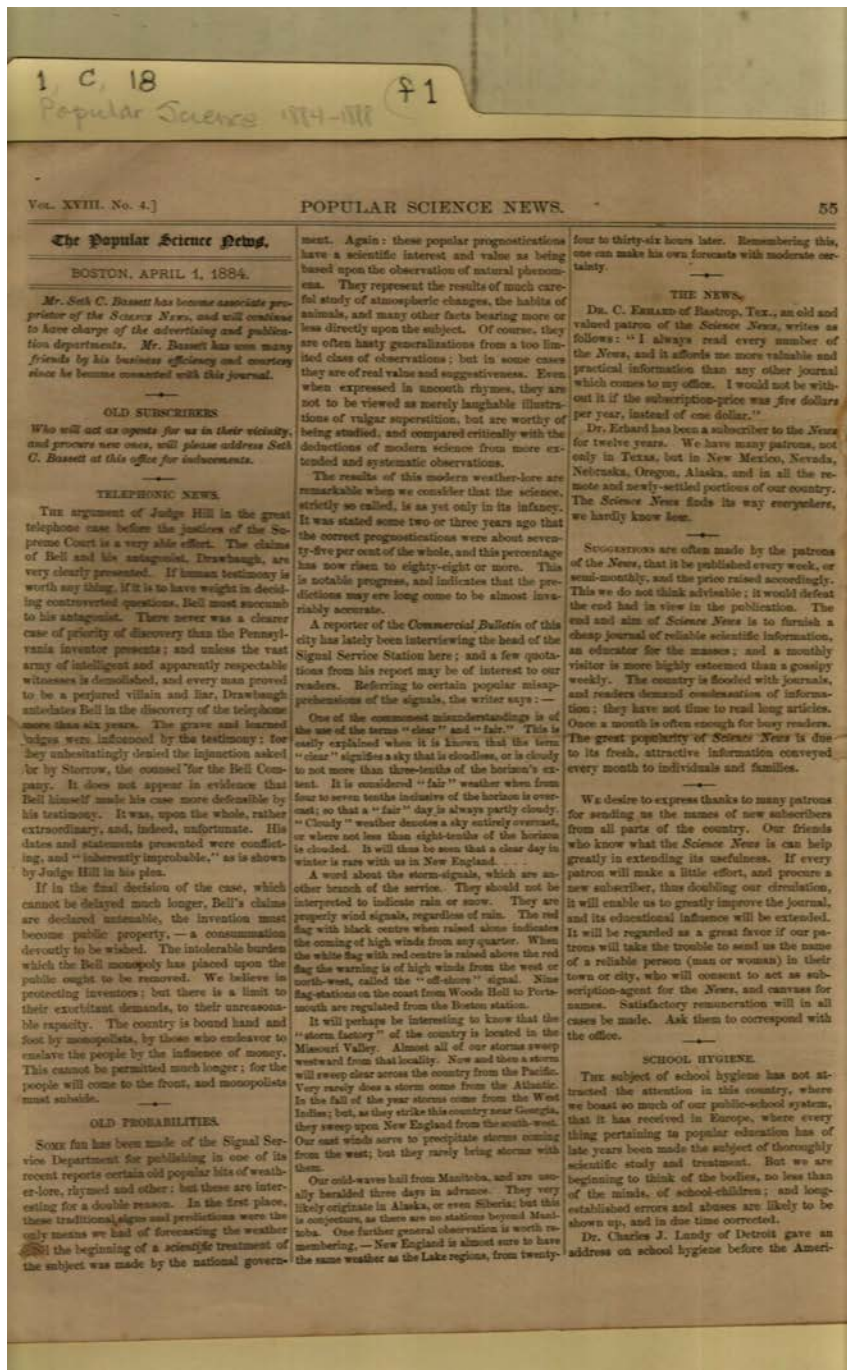
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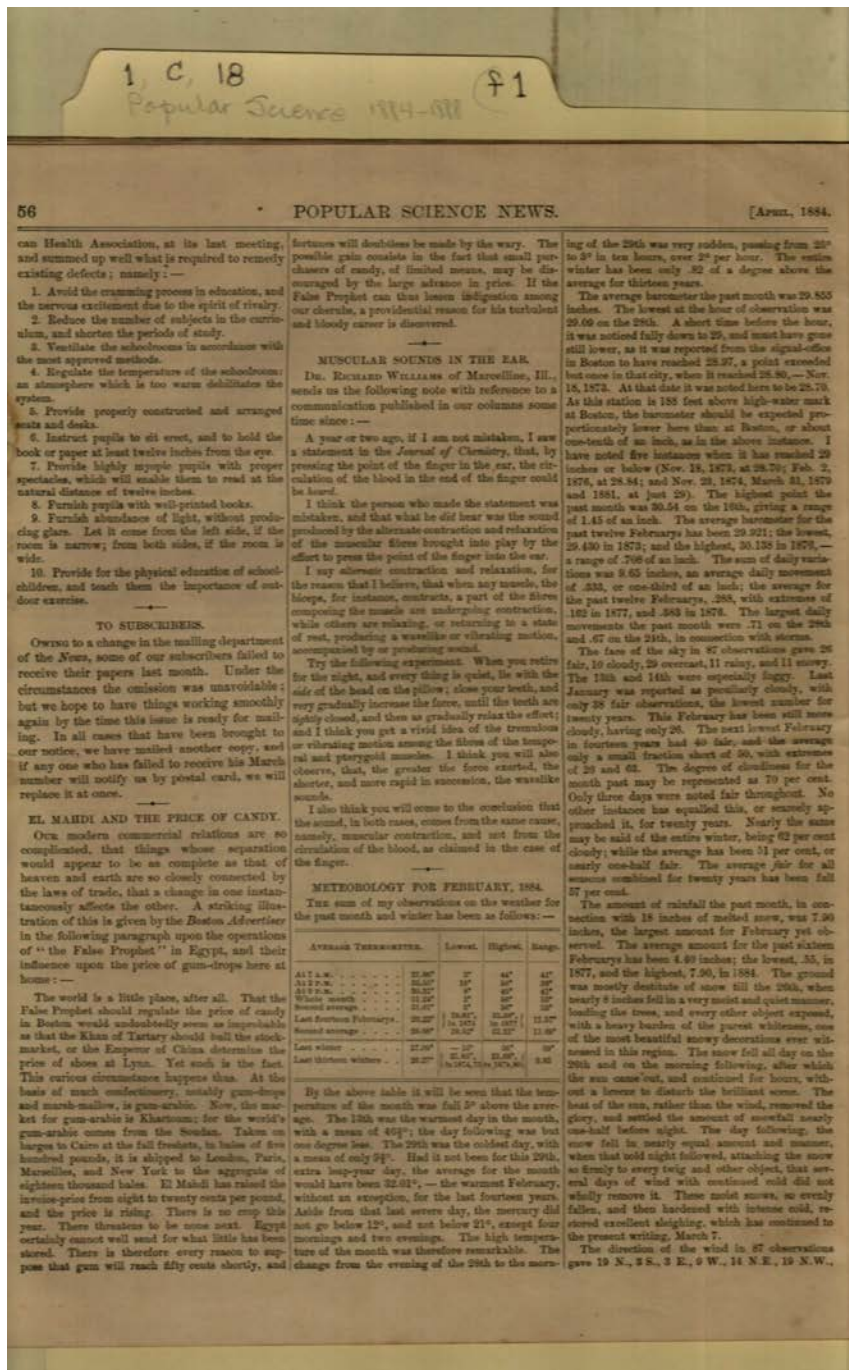
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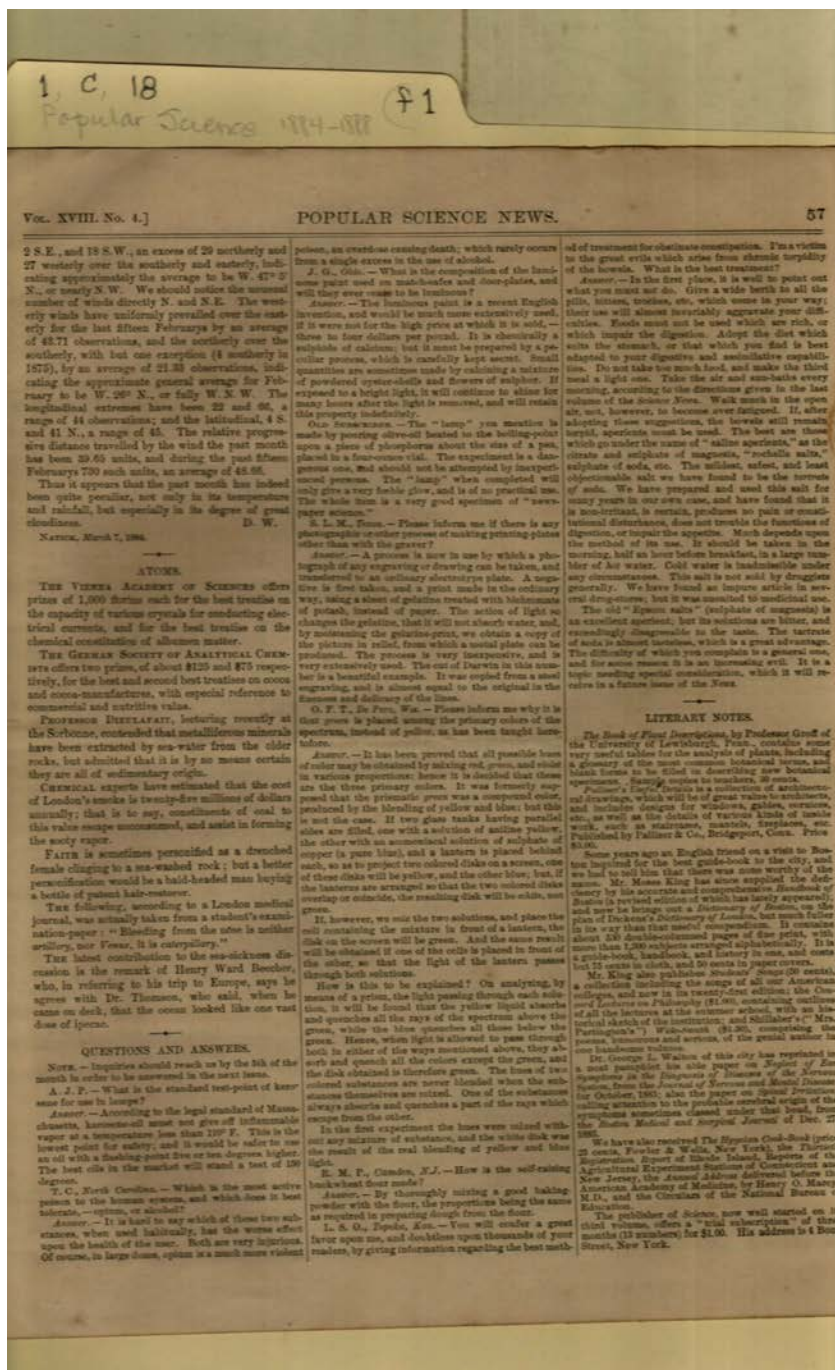
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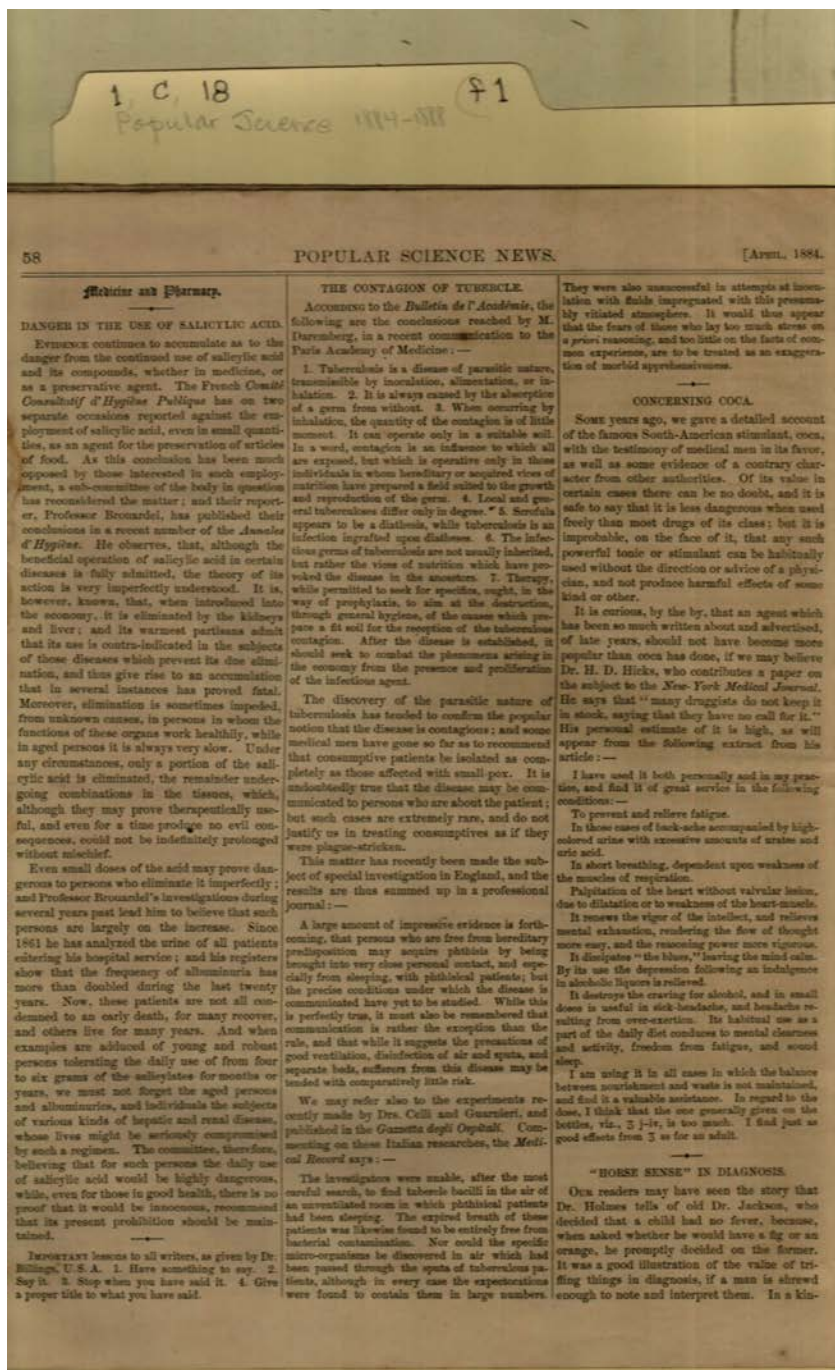
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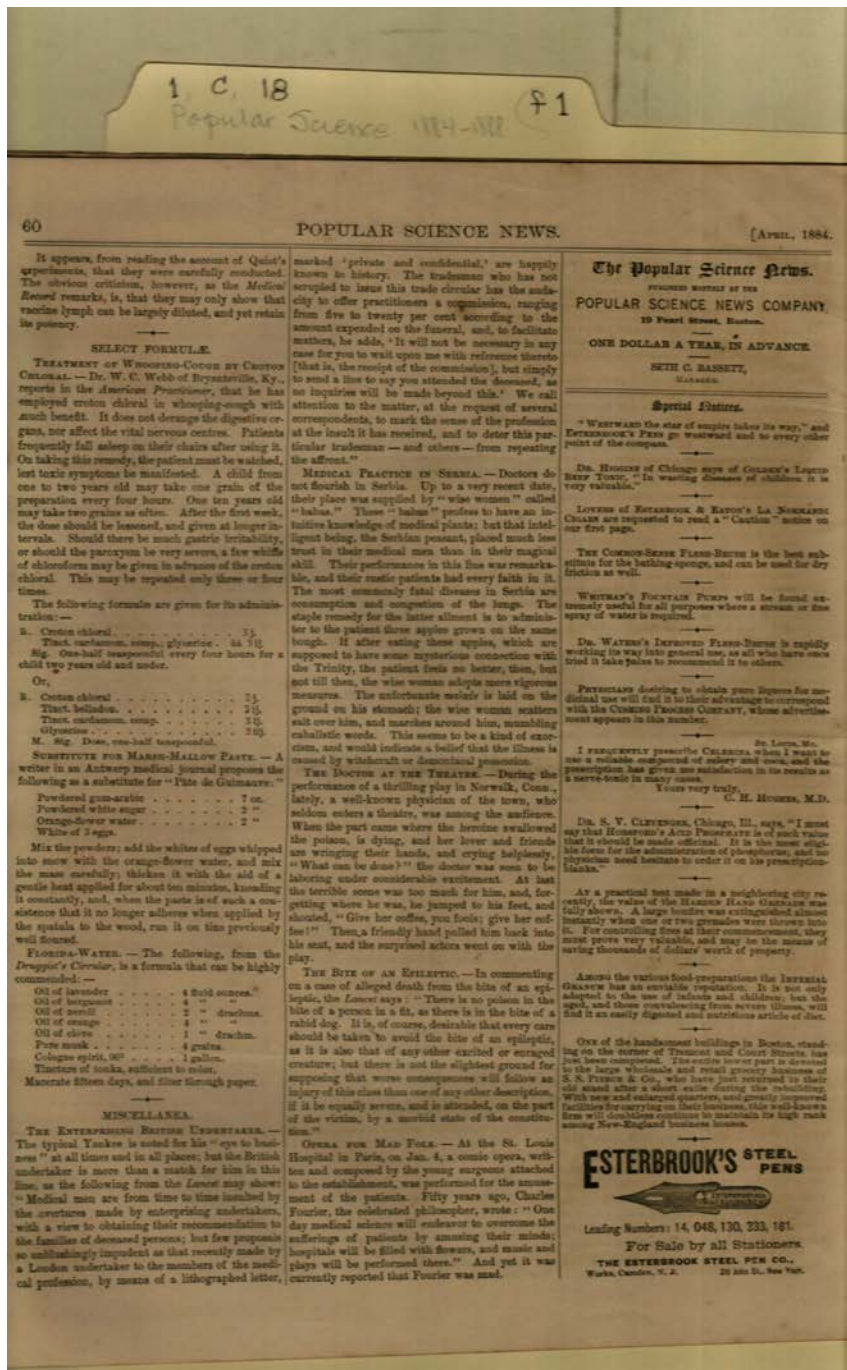
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**THEODORE METCALF & CO.,**  
 WHOLESALE, RETAIL, AND  
 MANUFACTURING PHARMACISTS,  
 39 Tremont Street, Boston.

**LIQUOR PANCREATICUS.**  
 "The Remedy for General Indigestion." — J. MALLEN FOTHERGILL, M.D.  
 Send for pamphlet giving directions for the preparation of Peptonized Foods.

**SYRUP OF THE HYPOPHOSPHITES.**  
 From the formulae of Dr. CHEVREUIL.  
 IRON. LIME. MANGANESE. POTASSA. SODA. LIME AND SODA. LIME, SODA, AND POTASSA.  
 LIME, SODA, POTASSA, and IRON. HYPOPHOSPHITES with STRYCHNIA.  
 In one (1) and six and one-half (6½) Pound (Five-Pint) Bottles.

**CHEMICALLY PURE. COMPOUND FLUID EXTRACT STILLINGIA**  
 (McDiarmid's Formula.)  
 This Compound of Stillingia Serapiella, Poke Root, and Prickly Ash has become well known as an alterative; and Dr. J. MARION SIBB publishes in the *British Medical Journal* an account of its use in Syphilis as a never-failing cure. Pamphlet containing directions for use, etc., sent on application.

**BURNETT'S PURE COD LIVER OIL.**  
 Bottled by us thirty years, and found ALWAYS PURE AND RELIABLE.  
 Depot in New York: E. FOUGERA & CO., 30 North William Street.

**CORKS.**  
 Having unequalled facilities for the manufacture of all sizes and grades, and also any Specialties in Corks for the Drug Trade,  
 We respectfully solicit your orders.  
 All orders will receive prompt attention, with satisfaction guaranteed.  
**WM. BEECHING & CO.**  
 Salesroom and Factory, 61 & 63 Blackstone Street,  
 BOSTON, MASS.  
 Price List sent on application.

**CELERINA.**  
 FORMULA.—Every Fluid Dram contains FIVE grains EACH, — Celery, Coca, Kola, Viburnum, and Arsenic.  
 INDICATIONS.—Impotency, Loss of Nerve Power (as usual with Lawyers, Preachers, Writers, and Business Men), Nervous Headache, Neuralgia, Paralysis, Dysmenorrhoea, Hysteria, Opium-Habit, Prostration, Depression, and all LAZINESS or DEBILITATED conditions of the system. Indispensable to restore a patient after excessive excess.  
 DOSE.—One or two teaspoonful three or more times a day, as directed by the Physician.

USED AND RECOMMENDED BY

L. CH. BOSHUIJER, M.D., LL.D., Professor Obstetrics, etc., St. Louis Medical College, St. Louis, Mo.	D. E. SHOWER, M.D., Professor Nervous Diseases, etc., Western Medical College, Chicago, Ill.
SAMUEL E. WOODY, A.M., M.D., Professor Chemistry, Kentucky School of Medicine, Louisville, Ky.	E. FLETCHER INGALLS, M.D., Professor Physiology, etc., Boston College of Medicine, Indianapolis, Ind.
GEORGE C. FITZGER, M.D., Professor Practice of Medicine, American Medical College, St. Louis, Mo.	J. H. MONTYER, A.M., M.D., Professor of Surgery, University of Wisconsin, College for Medical Practitioners, St. Louis, Mo.

AND HUNDREDS OF OTHER PHYSICIANS.

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**RIO CHEMICAL COMPANY**  
 (J. C. RICHARDSON, President.)  
 218 NORTH SECOND STREET, ST. LOUIS, MO.

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CASES OF PATIENTS AT THE  
**MURDOCK LIQUID FOOD CO.'S FREE HOSPITAL**  
 BOSTON.  
 Of Seventy Beds. Opened May, 1883.

**OUR FIRST DEATH, AND ITS CAUSE.**  
 A later time the Physician who attended her.

Sturtevant, Oct. 21, 1883.  
 Miss P.,—I have the honor to acknowledge the great favor which I received at your hospital, indirectly through one of my patients. The anxiety enables me to give a better description of her case than I could in any other way. From the first, it revealed an infectious cyst, which was established at the base, and behind, in a numerous mass of the conchoidal matter and choroidal membrane and extensive inflammation had rendered the organs of the hypoglossal and parotid glands almost a complete mass of straggling and extensive were the adhesions. This condition accounted for the great swelling, and rapid change of the last few days of her life.

I am satisfied that fully two months of comparative comfort were added to her life by the use of your Liquid Food.

I am sending your Food on a variety of cases, with great satisfaction. Thank you for all kindnesses to expect and patient, I am very respectfully yours.

Miss B., born at Mt. Vernon, Mother of two children. While receiving the second child, she was very ill all the time, and had a very severe labor, resulting in the death of the child, and other important incidents such as were indicated. After that time, she has suffered more or less from these injuries and other diseases, which, in turn, have contributed to depress her nervous system, and bring her to a state of great suffering, which has been long and tedious. To alleviate these sufferings, relief was administered on the early remedy that would give relief, until the system had been exhausted. In this condition she came to the Murdock Liquid Food Hospital, and was able to walk, work, and receive, passing her nights in pain, wearing her bed almost every week, when, shortly, advised with fresh blood. Four weeks' treatment with Liquid Food cured all the weakness, restored the system, and now the patient sleeps well, eats well, and retains her food, and has gained some ten pounds in flesh.

Miss T., aged twenty-four years. In health weighed one hundred and forty pounds. In November, 1883, was taken sick with puerperia, which resulted in an effusion of pus into the pleural sack. Several times she was unable to get up. At one time two grams were taken. Finally the fluid was removed, and a Drainage tube was put in, and the fluid has continued to discharge until the present time.

She was admitted to Murdock's Free Hospital, May 2, 1884, weighing only eighty and a half pounds, having lost thirty pounds of flesh, being unable to take and digest food enough to sustain the system under such a drain, and has been badly nourished on some cases, being obliged to take medicine weekly for the same. On Liquid Food she gradually began to gain flesh and strength. The discharge from her side diminished, three or four times faster than the same previous, and has been followed by constipation. Her spirits revived, and she improved, and was able to take and eat about twice daily, until in August she received a severe neural shock, which opened her nervous system so that she retained food of all kinds for several weeks. She has finally recovered, but still, and now takes food again, and is getting daily, and able to take on.

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**This Brush should always be used dry.**

Times for me are sent with each brush, which, closely followed, will be found invaluable. Send me Three Dollars in post-office order or registered letter, and I will send you the brush and directions free by mail.

— Dr. G. F. Waters, one of the ablest doctors of Boston, has perfected a fresh brush that is an improvement. "It is well to use by every well-known person, who are thoroughly pleased with its effects." — Dr. Waters and his valuable brush are worthy of all commendation. — *Publisher's Boston Herald*, Vol. 4, No. 32.

Is a scientific, physiological appliance, made by hand, of vegetable and animal fiber, well disposed, and adjusted to the electrical needs of the human body, that while in use it cleanses thoroughly and pleasantly. It gives easily in five minutes an automatic massage to the skin that the hand alone could not equal in an hour, relieving Chills, Rheumatism, Congestions, Contusions, Neuralgia, Paralysis, and other sequelae of skin laxity. Directions for use are sent with each brush, which, closely followed, will be found invaluable. Send me Three Dollars in post-office order or registered letter, and I will send you the brush and directions free by mail.

**G. F. WATERS, 8 Beacon Street, Boston, Mass.**

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**COLDEN'S LIQUID BEEF TONIC.**

Indicated by some of physicians, and thousands of people who have used it. It differs essentially from all other Beef Tonics and Tonic.

It contains the Juice of the Sweet Fresh Root — by Baron von Liebig's process — together with Iron, Quinine, and Biotin known for their tonic and health-giving properties. It improves the Quality of the Blood. It is a valuable means of remedying Febrile Debility, Morbidity arising from over-exertion, and delicate women who expect to become mothers and vigorous children should all use it. It cures all the various forms of Nervous Prostration, Irritability, and the various forms of Nervous Debility, Headache, and other ailments. It is highly beneficial in Lung and Liver Complaints, General Irritability, Malarial Fever, Loss of Appetite, and Loss of Flesh. It repairs the waste caused by disease and restores the principles of Digestion, Improves Digestion and Appetite, and affords the strongest remedy in early medicinal articles of food, and is so pleasant to the taste that the most delicate stomachs will not reject it.

**CAUTION — COLDEN'S LIQUID BEEF TONIC** is an abbreviation of the original "COLDEN'S LIQUID EXTRACT OF BEEF AND TONIC INVIGORATING." Each bottle bears high testimonials, a number of gentlemen which should always be carefully examined. The quantity of its contents and composition will be found satisfactory.

— That the medical profession may properly understand the merits of "COLDEN'S LIQUID BEEF TONIC," an analysis by the eminent chemist, ARTHUR HILL HANSELL, M.D., F.R.S., of London, England, and also an endorsement by the celebrated physician, Sir EDWARD WILSON of London, is appended on each bottle. Sold by druggists generally at \$1.00; 6 bottles for \$5.00. C. K. CRITTENTON, GENERAL AGENT, 113 Fulton Street, New York. Sold wholesale by GEORGE C. GOODWIN & CO., Boston, Mass.

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**ANGLO-SWISS MILK FOOD.**

MADE AT CHAM, SWITZERLAND, BY THE ANGLO-SWISS COND. MILK CO.

Prescribed by Leading Practitioners, and used in Prominent Institutions, throughout the Country.

**CHEMICAL ANALYSIS.**

Moisture	5 to 6 per cent.	The proportion of nitrogenous matter or plastic elements to carbon-hydrates and respiratory substances in mother's milk is 1:4.5, and in this food the proportion is practically the same, namely, 1:4.2. The fat, as a respiratory substance, is here reduced to the equivalent of starch.
Nitrogenous matter (Nitrogen)	1.25 to 1.28 per cent.	
Carbon-hydrates, soluble in water	54 to 55 per cent.	
Carbon-hydrates, insoluble in water	15 to 18 per cent.	
Fat	4 to 5 per cent.	
ash (insoluble in 6N Phosphate Acid)	2 to 2.5 per cent.	

My analysis perfectly agrees with the analysis given on their labels, and bears witness to the excellent and rational manner in which this food is compounded.

— Dr. E. GEISSLER, Dresden, April 30, 1880.

I have used Anglo-Swiss Milk Food in my practice, and commend it with confidence to those who may need it for infants or invalids. The introduction of the Anglo-Swiss Milk Food into America is a great blessing to sick children, weary mothers, and almost discouraged physicians, for medicine will not take the place of food. — E. A. JENNINGS, M.D., President Dispensary, 10 West Fourteenth Street, New York.

Used in New York Infant Asylum. — J. LEWIN SMITH, M.D.

Has yielded most favorable results. — J. C. GUENNESEY, M.D., Philadelphia.

The Diarrhea had been persistent for four months, in spite of the use of other foods. After using two days, the evacuations became normal, and the purgative child is now plump and healthy. — GEORGE M. OCKFORD, M.D., Vincennes, Ind.

Used in our Sea-Side Nursery. It nourishes and strengthens every child to whom it is given. — JOHN W. KRAMER, M.D., Master of St. John's Guild.

Our little ones love it. It regulates and strengthens the bowels. — SISTERS OF CHARITY, St. Vincent's Home, Philadelphia.

We find that it agrees with each case. — M. SPINCKER, Matron, Philadelphia Infant's Home.

**SOLD BY DRUGGISTS GENERALLY.** Address Anglo-Swiss Cond. Milk Co., P. O. Box 3773, New York.

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**FOR CONSUMPTION AND WASTING DISEASES.**

**HYDROLEINE**

Has been proved of the highest value in CONSUMPTION and WASTING DISEASES, invariably producing IMMEDIATE INCREASE in FLESH and WEIGHT.

**FORMULA OF HYDROLEINE.**

Each dose of two tablespoonfuls, twice a day, contains—	
Pure and Sterilized Water	1.2 grain.
Hydrocarbon	1.4 "
Hydrocarbon	1.0 "

The formula upon which this discovery is based, has been described in a treatise on "The Diseases and Anomalies of Fat in the Human Body," by H. C. BARTLETT, Ph.D., by G. OVERDUYEN, M.D., which, together with many interesting observations on "Consumption and Wasting Diseases," is done together the chemistry and physiology of the Digestion of the Fat and Oil is made clear, not only by the description of a large number of experiments scientifically conducted, but by cases in which the substance are most fully borne out by the facts.

Copies of these valuable works will be sent free on application.

**Hydrated Oil, HYDROLEINE, Water and Oil.**

HYDROLEINE is readily absorbed by the most delicate stomachs, even when the parts of it are the most severely prostrated stomachs are required. The oil is so treated with preservative acids, borax and hydrochloric acids, that the process of digestion is partially effected before the process of the patient are called upon to act upon it; consequently it is readily assimilated. It will nourish and produce increase in weight in those cases where other fats are not so readily assimilated or digested in the stomach. In Consumption and other Wasting Diseases the most powerful remedy is the production of which the first is the stimulation of the first forces of the body, including the brain and nerves. This tendency to stimulation and loss of weight is arrested by the regular use of HYDROLEINE, which may be discontinued when the total average weight has been completely regained.

The preservation and perfection of the stomach, and the entire satisfactory of the HYDRATED OIL, which is prepared and sold by us under the name of HYDROLEINE, is shown by the results which it produces as long as the patient and their oil will retain its essential. Under the preservative treatment, as simple and direct as it professes to employ, it produces the highest degree of assimilation, and should be taken in each very small amount. In the stomach, as well as in the stomach, it produces the highest degree of assimilation, and should be taken in each very small amount. In the stomach, as well as in the stomach, it produces the highest degree of assimilation, and should be taken in each very small amount.

To the workers of all classes Hydrated Oil is invaluable, supplying, as it does, the true brain-food. — *Enclosure in our reply to "Truth, Science, and Higher Knowledge."*

**NEW F.A.T.**

**KIDDER & LAIRD, Agents for the United States.**

Price at Retail \$1.00 per Bottle. Depot 83 John Street, New York.

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# The Popular Science News

AND  
BOSTON JOURNAL OF CHEMISTRY.

VOLUME XVIII. BOSTON, JUNE, 1884. NUMBER 6.

CONTENTS.	
<p><b>FAMILIAR SCIENCE.</b>—Count du Moncel Lunar Heat Familiar Science in Japan The Chemistry of Lard The Laboratory and Jack Bull The Fringe of Science Scientific Inquiries Household Hints</p> <p><b>PHYSICAL CHEMISTRY AND THE ARTS.</b>—Jewels and Fragrance Mould in the Workshop Iron Wire Chemical Books Fading of Dyes Industrial Steamboats Practical Notes</p> <p><b>AGRICULTURE.</b>—Exchange Discussion in England Cultivation of Food for Livestock Fertilizing Manure Fishes of the French Lake in Vegetation Spinnings</p> <p><b>MINERALOGY.</b>—The Moon Chemical Books and Papers The French Stone of Marne Solid and Liquid Carbonic Acid English Geological Formations General Knowledge of Organic Matter On Air-Puffing Manufacture of April, 1884 Editorial Notes Answers Questions and Answers Library Notes</p> <p><b>MECHANICAL AND PRACTICAL.</b>—Blow-Grass The Chlorine Gas The Chlorine Gas Carbonation of Phosphoric Acid Chlorine in the Atmosphere Miscellaneous Editorial Notes Special Notices</p>	<p>gentleman of the good old times. Du Moncel could not descend to this; for to him it would have been a "coming-down" indeed, and not a rising to hereditary honor and dignity, as his family considered it. The result was, that they quarrelled with him, and warned him, that, if he persisted in his bourgeois career, he could reckon on no further help from the ancestral revenues.</p> <p>He could not carry on his costly researches in archaeology without money; so he now turned his attention to science, and especially to electricity, for which he had a pronounced taste.</p> <div style="text-align: center;">  </div> <p>He became his own teacher in this new field, but was soon proficient enough to begin to teach others. He made his debut as a scientific writer in a provincial journal, to which he contributed some articles on <i>New Discoveries in Electricity</i>. This was the beginning of a long succession of papers on electrical science, which were afterwards revised, and issued in book-form, finally extending to five octavo volumes.</p> <p>Du Moncel's original researches in electricity were chiefly connected with induction currents, electro-magnets, and galvanic batteries, and their practical application. He was not only a most indefatigable investigator and writer, but also a prolific inventor. Between 1850 and 1856, he devised no less than twenty-five valuable instruments and forms of apparatus; and for work of this kind he was awarded a first-class medal at the Exhibition of 1855. In 1860 he was appointed chief electrical engineer of the national telegraph system; in 1866 he was made an officer of the Legion of Honor, and in 1874 he was elected to the Academy of Sciences.</p> <p>Among his published works, the full list of which would take too much space, were treatises on the telephone, an electric lighting, on the microphone and the phonograph, and on electric motors. He was long editor-in-chief of <i>Les Éclaircissements Électriques</i>, and a constant contributor to <i>Les Comptes Rendus</i> and the bulletins of many scientific societies.</p> <p>It is a curious fact that this man, so familiar with the marvels of modern science (several of his books were published in Hachette's <i>Library of Wonders</i>), could not at first believe the reports of the invention of the telephone, but suspected them to be a Yankee fraud. Even the detailed descriptions of the instrument as first published in <i>Les Notes</i> failed to convince him of its value. Some time afterwards, when M. Tessandier asked him his opinion as to certain new electrical "notions," Du Moncel replied: "I should not dare to deny them, whatever they may be; nothing is impossible to science."</p> <p>How the haughty ancestors of this eminent man would now regard his scientific achievements, it is impossible to say. They might still consider that to live a useless life, and to be known afterwards only as one of the noble line of the Du Moncels, would better become the heir of the family than to be honored throughout the world among those who have contributed to the true progress of the human race; but we may be sure that Theodore du Moncel has done more to make the family name immortal than all his aristocratic predecessors.</p> <p style="text-align: center;"><b>LUNAR HEAT.</b> BY PROFESSOR C. A. WILSON.</p> <p>One of the most interesting inquiries relating to the moon is that which deals with the heat she sends us, and the probable temperature of her surface. The problem seems to have been first attacked by Tschirnhausen and La Hire, about 1700; and they both found, that even when the moon's rays were concentrated by the most powerful burning-lenses and mirrors they could obtain, its heat was too small to produce the slightest perceptible effect on the most delicate thermometers then known. For more than a hundred years, this was all that could be made out, though the experiment was often repeated.</p> <p>It was not until 1831 that Melloni, with his newly-invented "thermocouple," succeeded in</p> <p><small>* Probably most of our readers know that the thermocouple consists of a number of thin bars of two different metals, connected by wires, consisting in this way, and having the ends joined by a conducting circuit with a galvanometer. It is, however, one of the instruments (see Fig. 2, 2') in which the heat of the sun, or a source of electricity, will be perceived, which will affect the galvanometer. The law are usually made of bismuth and antimony, though iron and copper alloy answer just well.</small></p>

**Familiar Science.**

**COUNT DU MONCEL.**

THEODORE DU MONCEL, the eminent French electrician, who died on the 16th of February last, at the age of sixty-three, was the son of Count du Moncel, general of engineers, and peer of France under Louis Philippe. He was educated at Caen, and, on leaving college, began at once to show a decided taste for the fine arts. He soon published a treatise on *Mathematical Perspective*, and likewise devoted himself to archaeological researches. These led him to make long journeys in Italy, Greece, and the East, whence he returned, laden with documents and designs which furnished the material for a large and elegant work entitled *From Venice to Constantinople, through Greece*. This was followed by other works in the same archaeological line; and the lithographic plates for these were executed by his own hand.

Strange to say, this literary work was not acceptable to the noble family of the Du Moncels. His parents, indeed as they were with aristocratic prejudices, were grieved to see the young count giving himself up to what they regarded as vulgar labor, though it was labor of a sort which even sovereigns have sometimes not disdained to undertake. They urged him to drop the pursuit of archaeology and art, and live the elegantly useless life of a French

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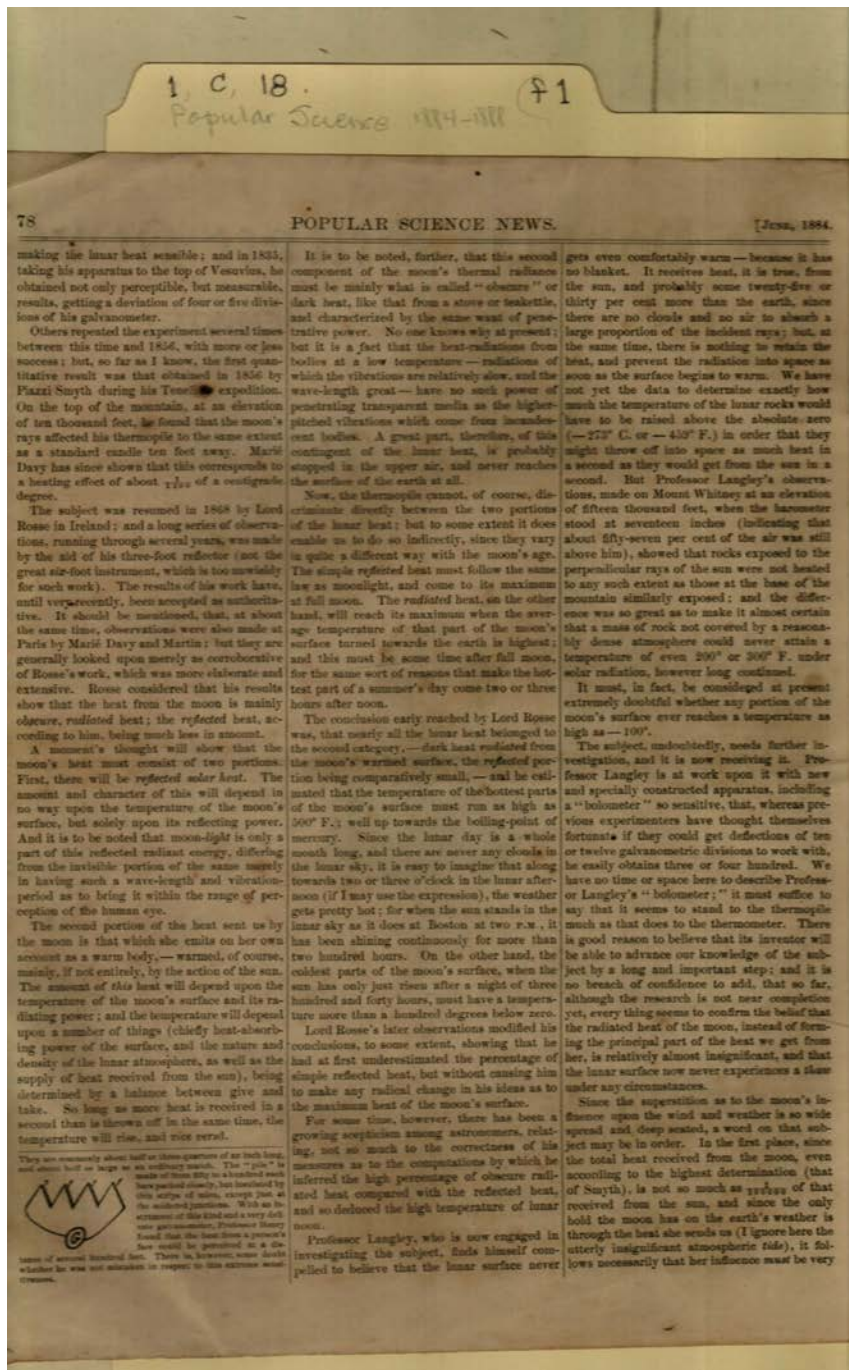
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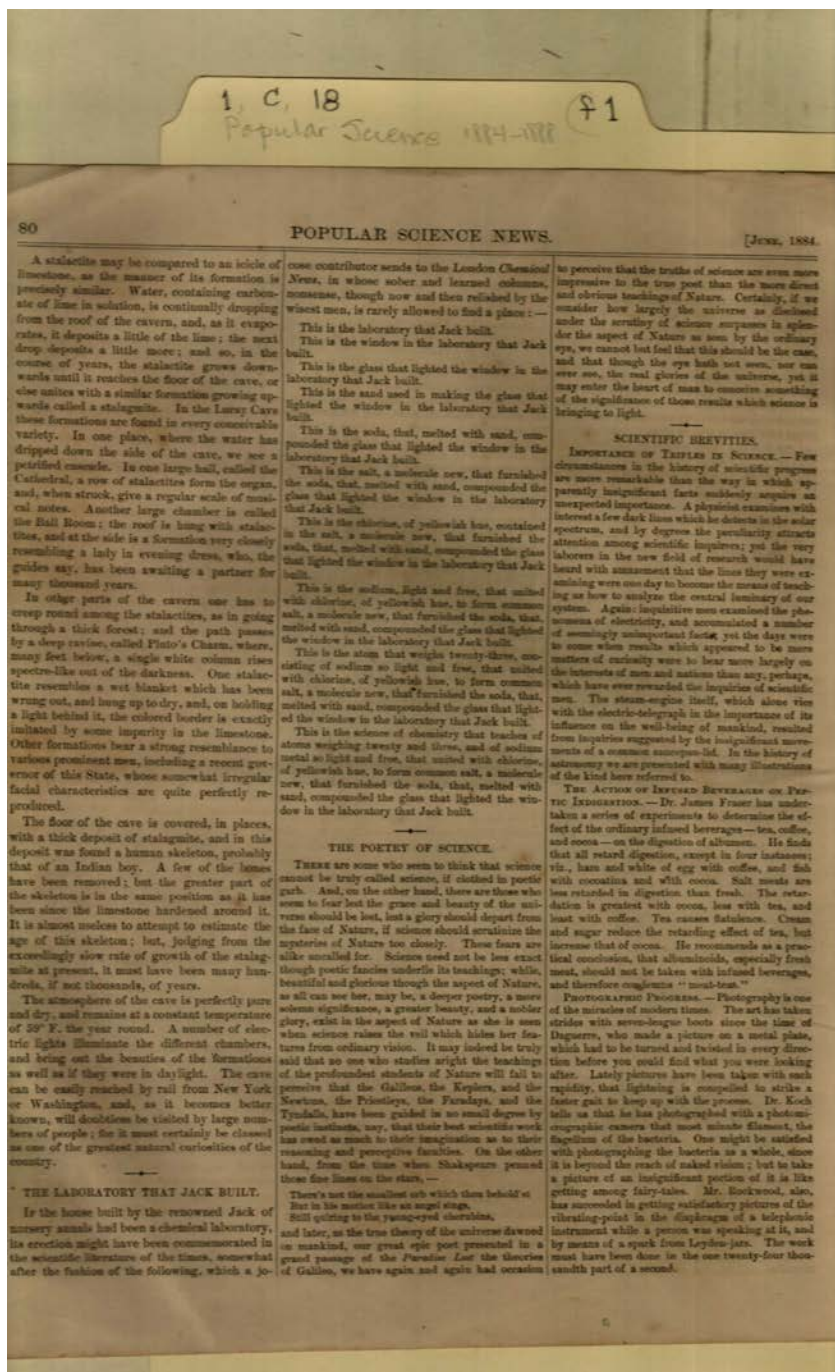
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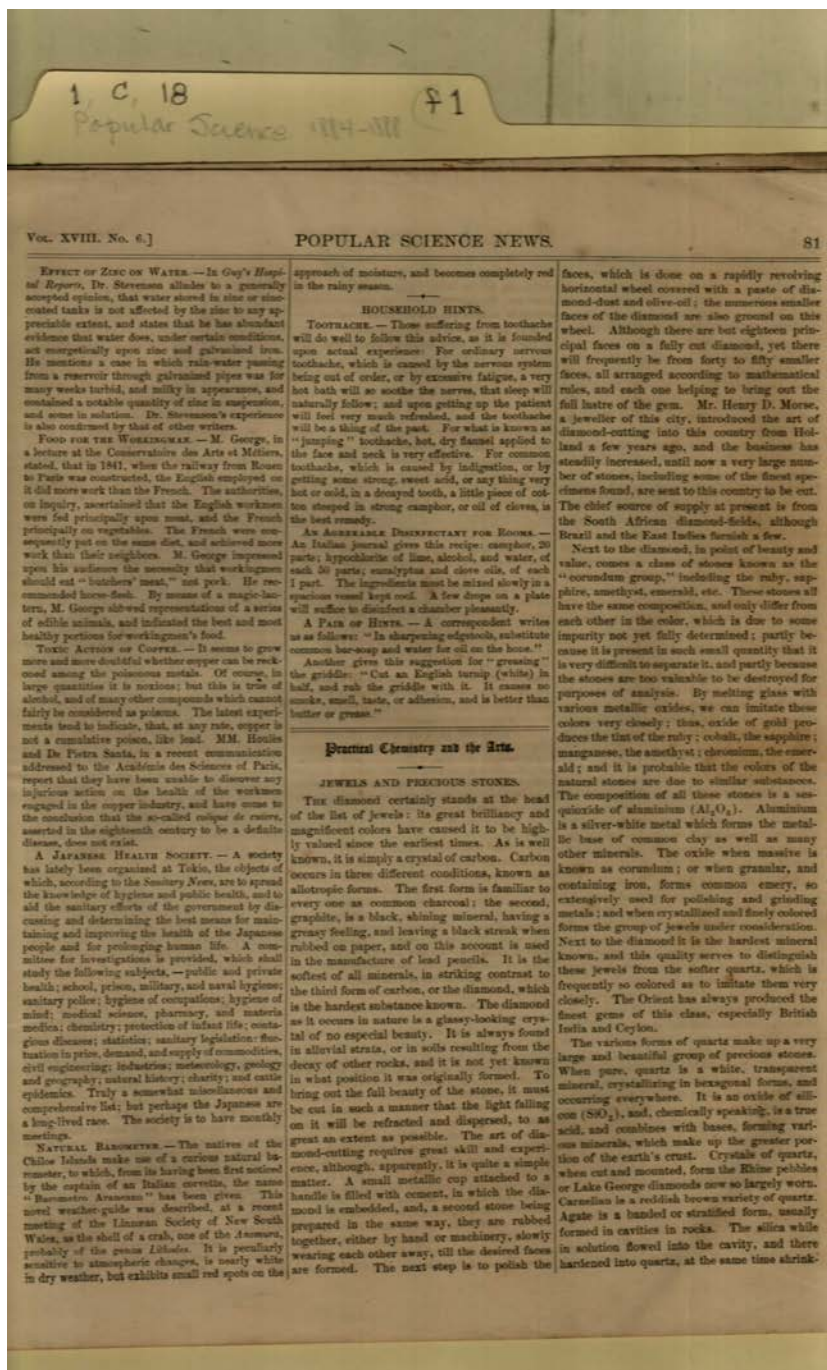
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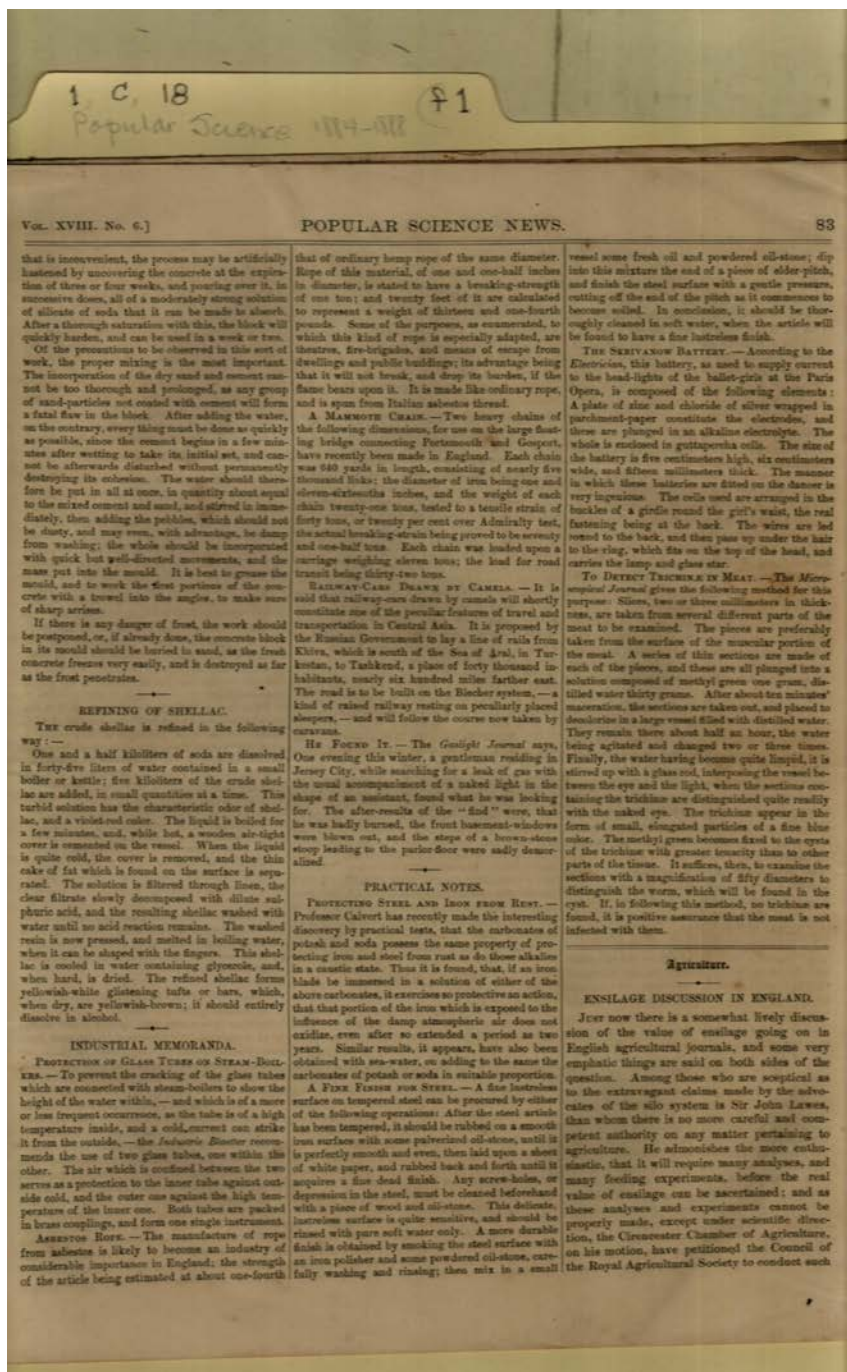
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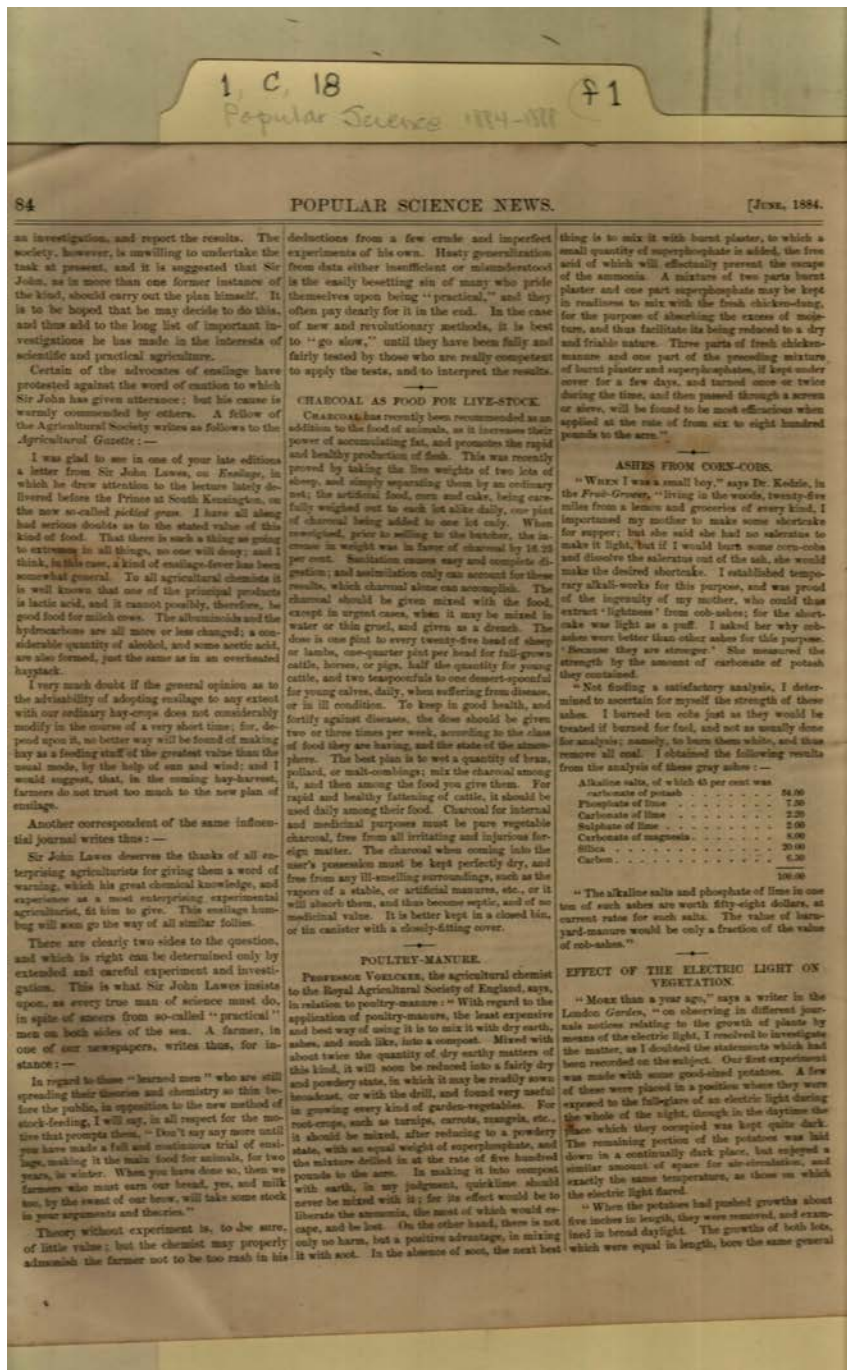
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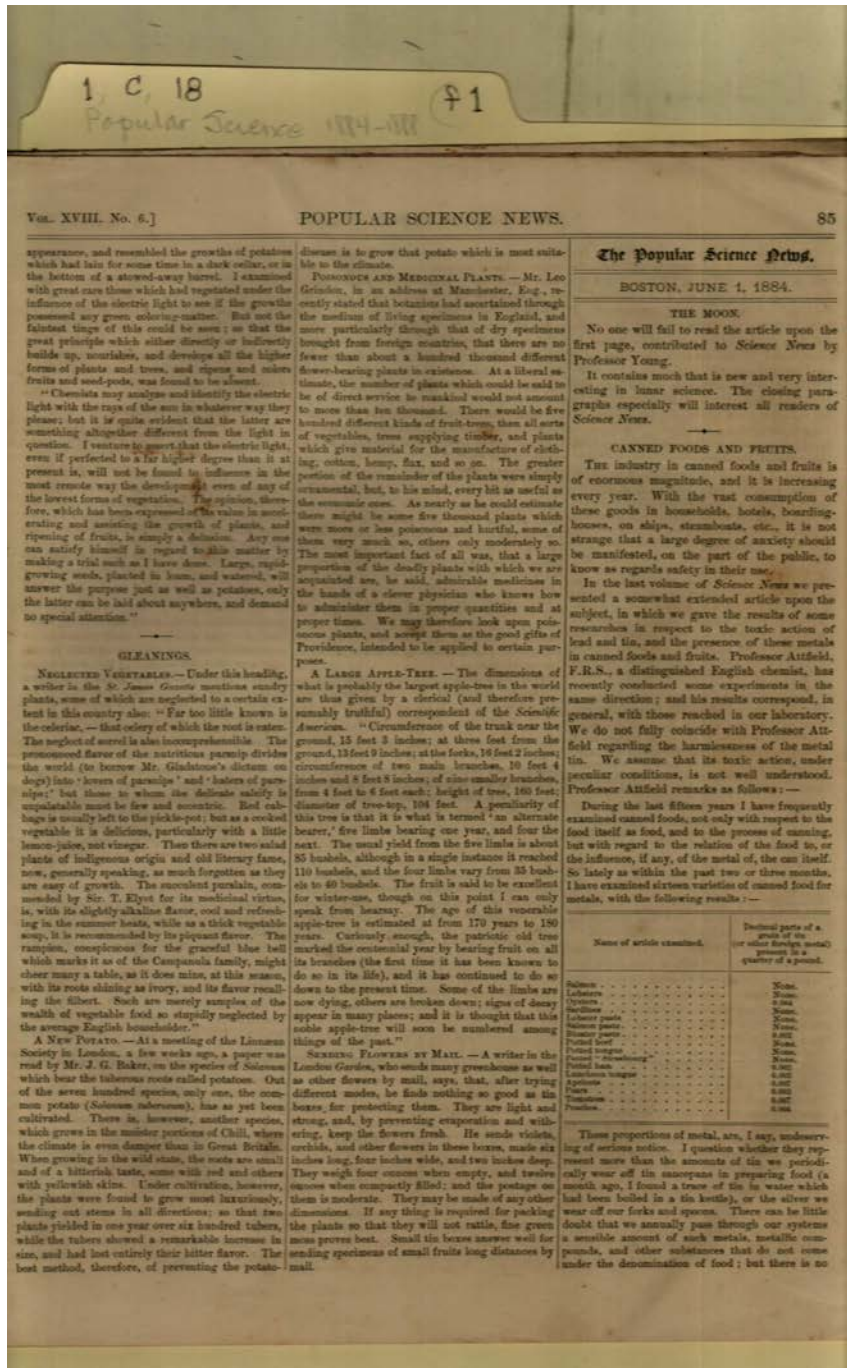
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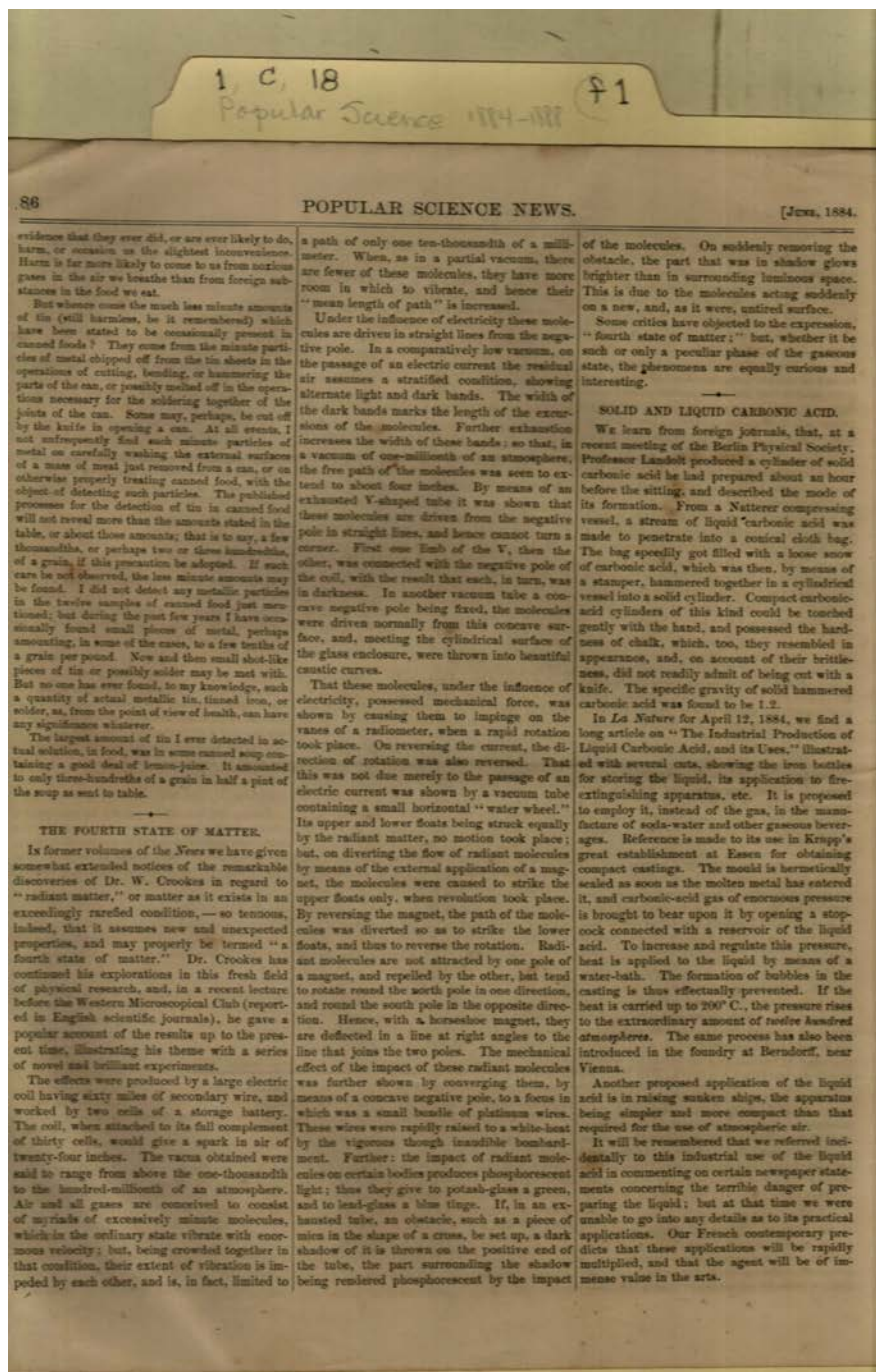
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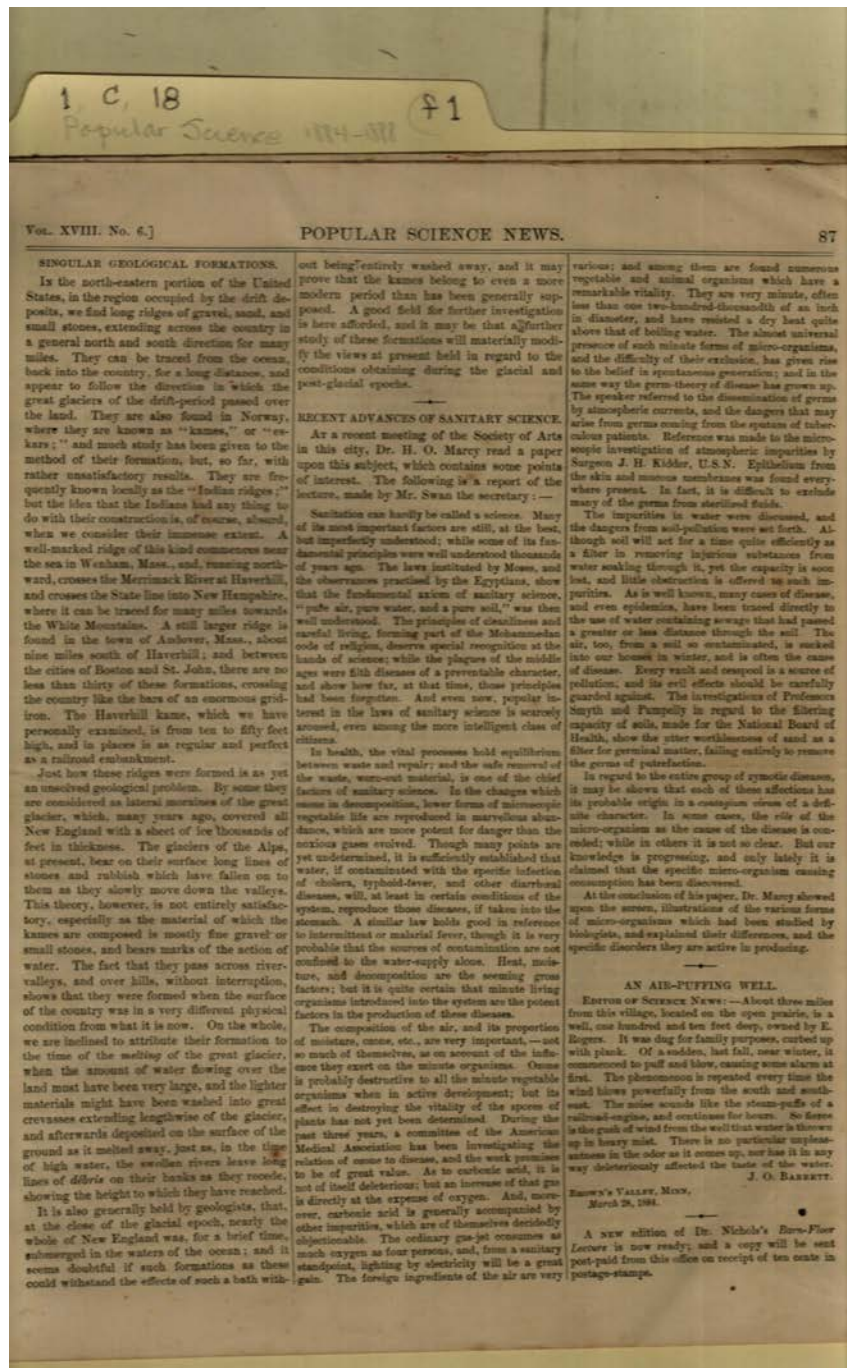
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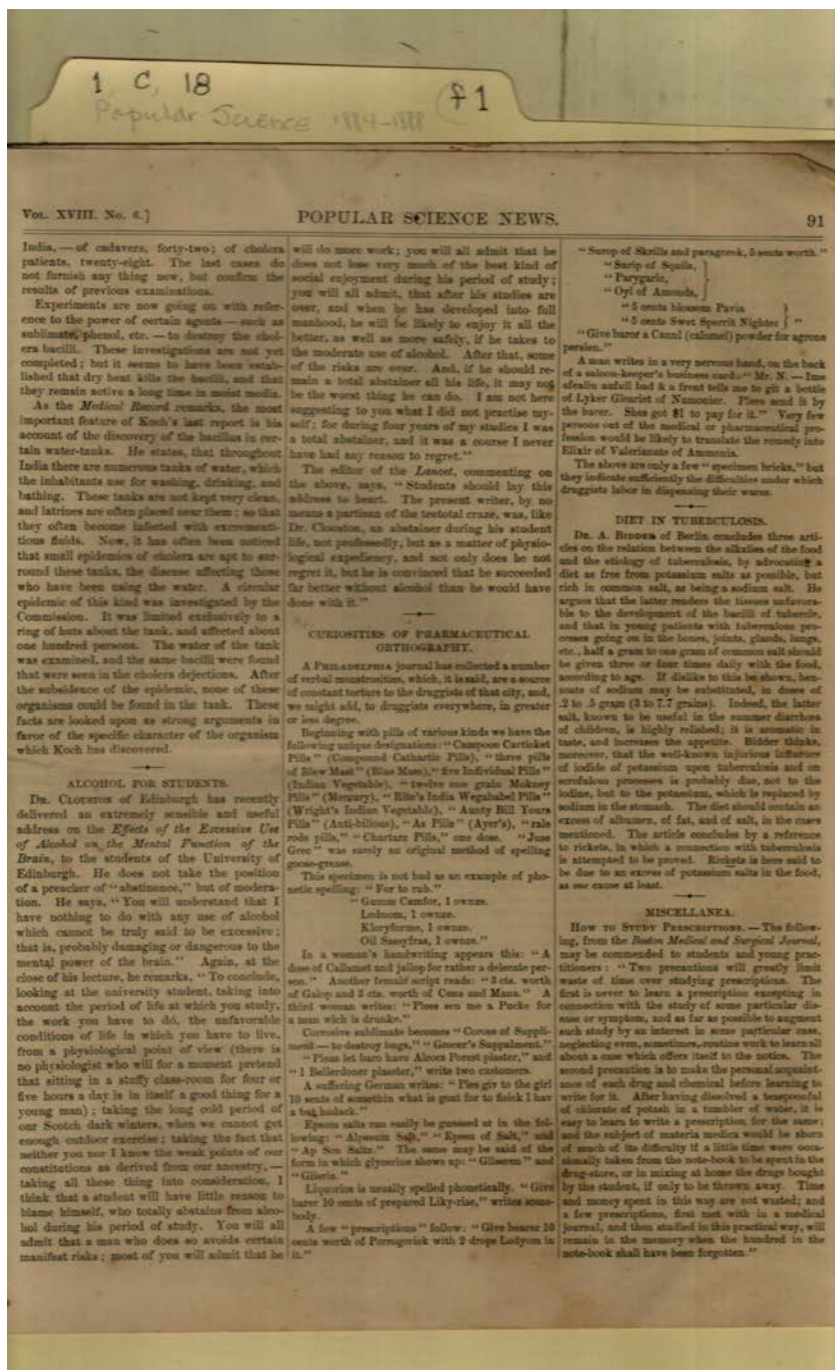
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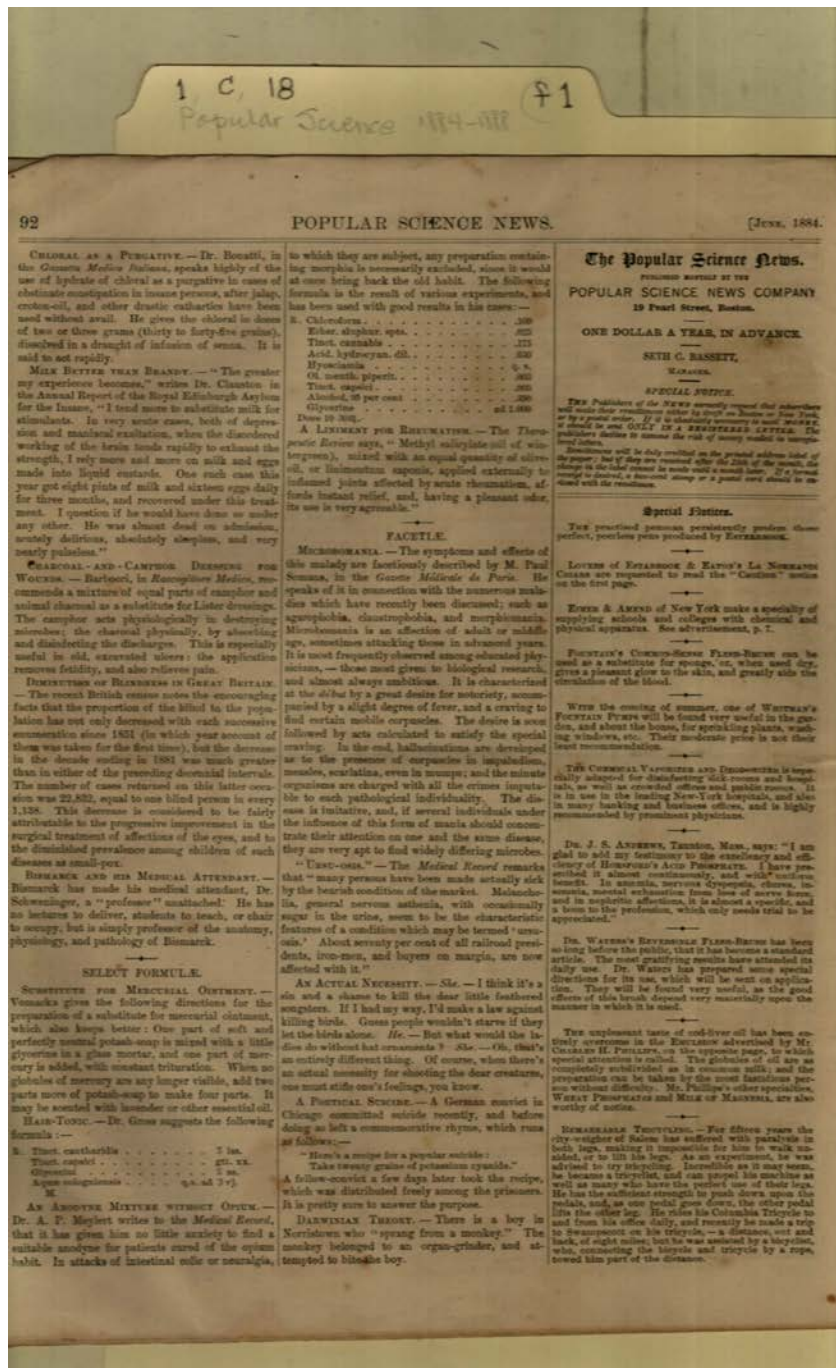
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**A MEDICINAL FOOD.**

**PHILLIPS' PALATABLE COD-LIVER OIL.** (Cod-Liver Oil with the Phosphates.)

Easy of administration. Perfectly miscible with water. So minute a subdivision of the Oil Globules is not accomplished in any other Emulsion. It is therefore more easily assimilated, and breaks down into tissue. There is no excretion of the Oil. Physicians will unhesitatingly with this preparation are respectfully asked to give it a trial, and note results. Formula with each Bottle.

COW'S MILK. PHILLIPS' C-L OIL. ORDINARY EMULSION.

To show it was cooked. All the specimens were photographed at 200 diameters by means of the same apparatus, the same lenses, and practically under the same conditions, and with equal fairness toward all. The illustrations are faithful reproductions of the Photo-Micrographs. Dr. Wm. K. LILLIE, J.C., Pathological Laboratory, Jersey Medical College.

PHILLIPS' PALATABLE COD-LIVER OIL. PHILLIPS' WHEAT-PHOSPHATES. MILK OF MAGNESIA.

Prepared only by CHARLES H. PHILLIPS, Manufacturing Chemist, New York.

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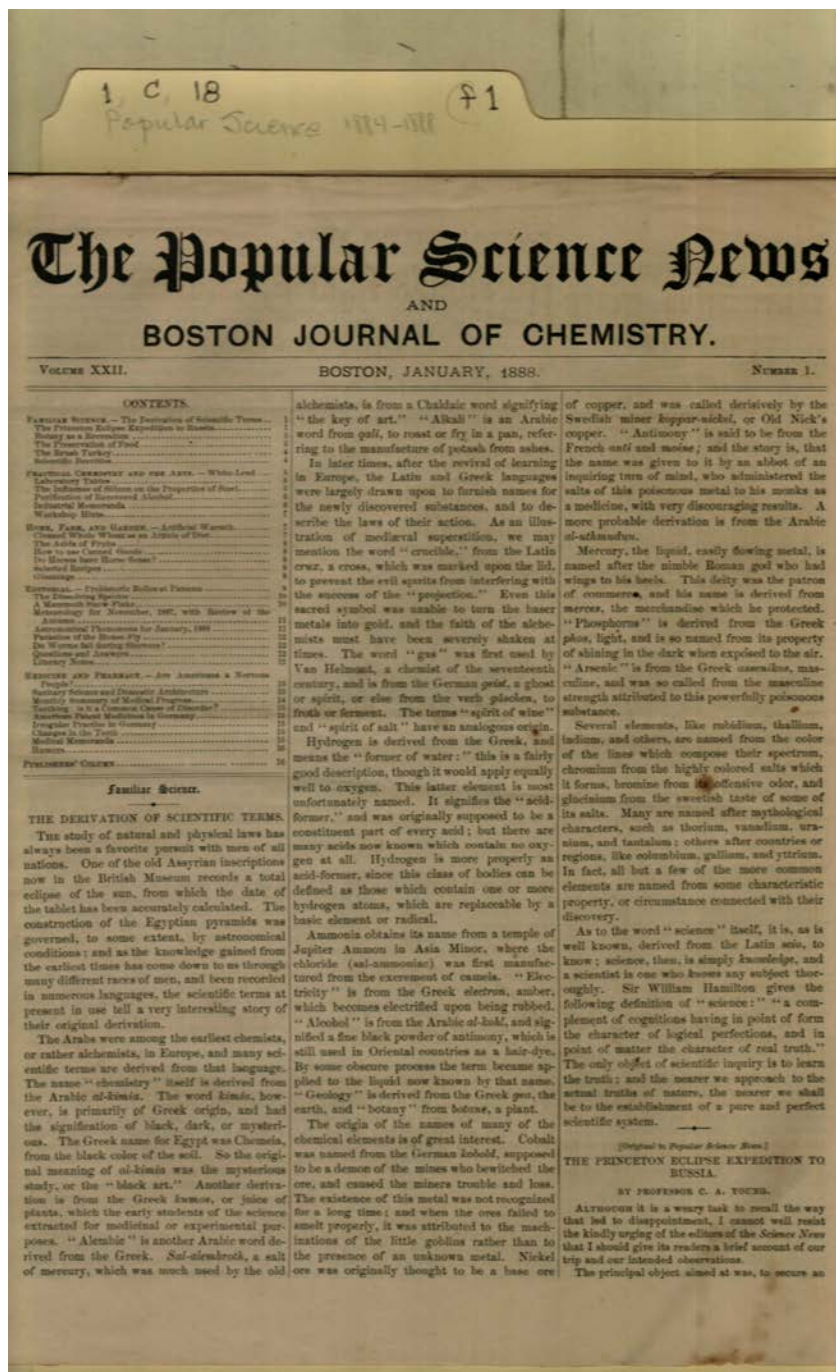
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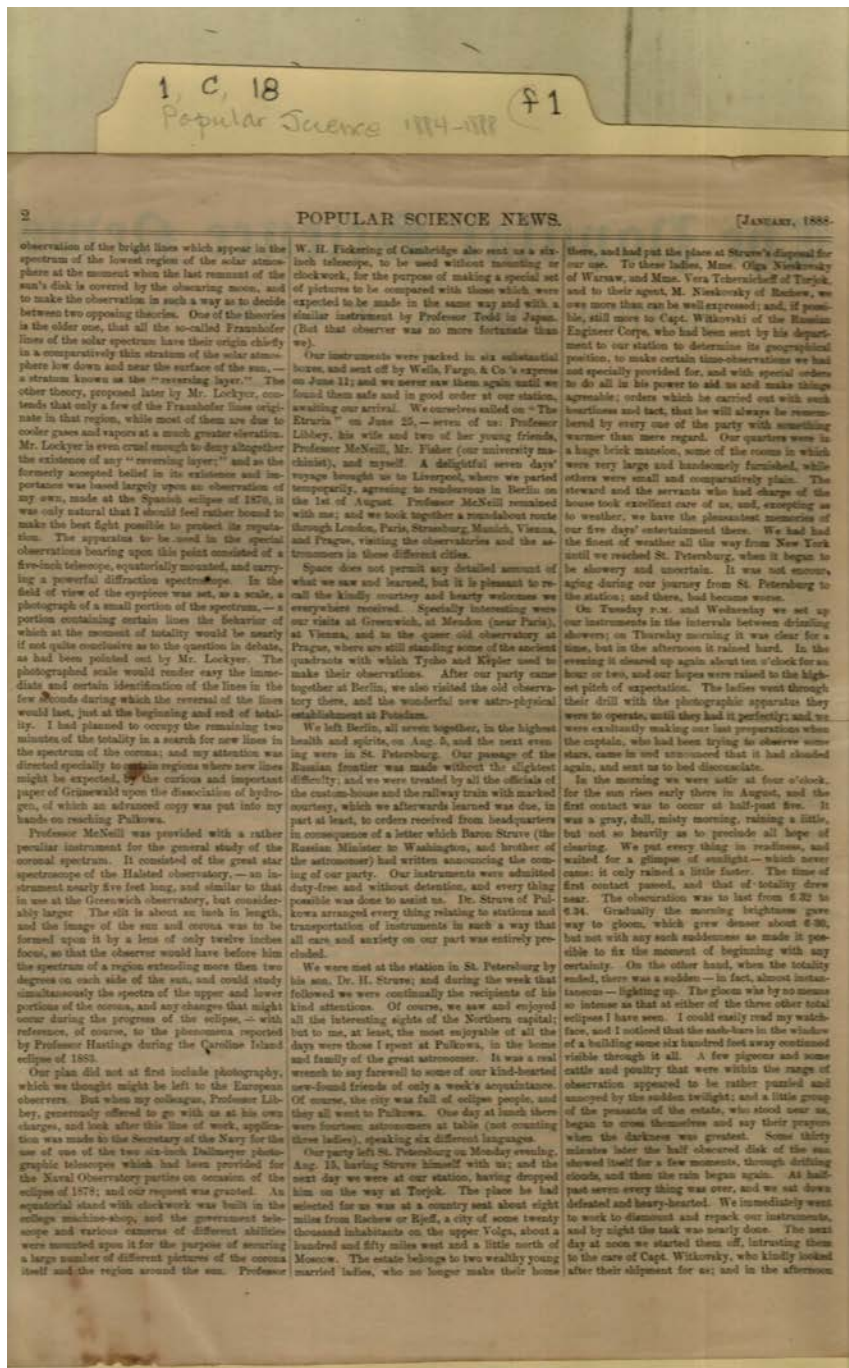
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**Places:**  
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**Types:**  
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Preservation of Food



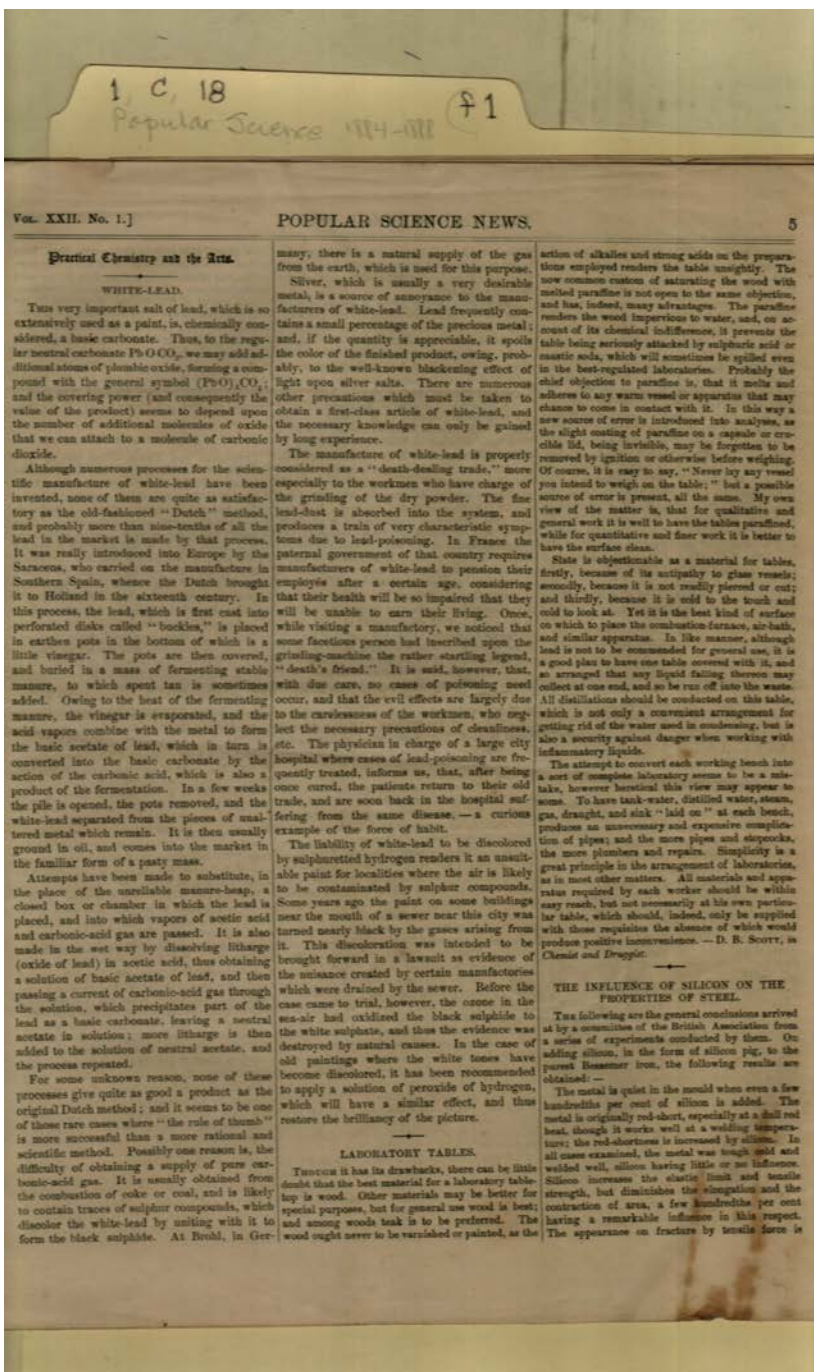
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The Brush Turkey



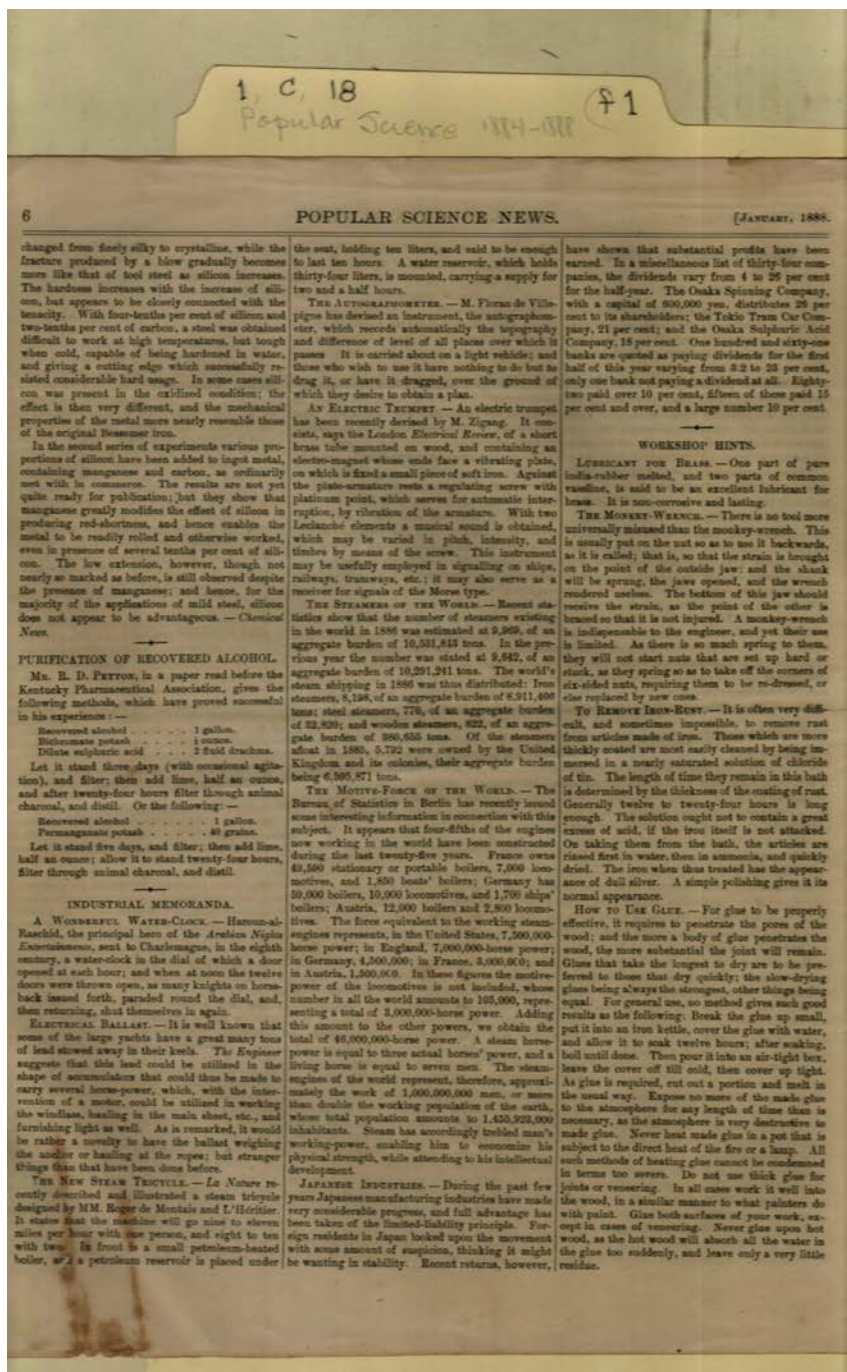
**Names:**  
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Laboratory Tables  
 White Lead

**Places:**  
 Boston

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**Names:**  
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**Places:**  
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Purification of  
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Workshop Hints



**Names:**

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Wheat

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**Names:**

Horses

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Selected Recipes

The Acids of Fruits

**Places:**

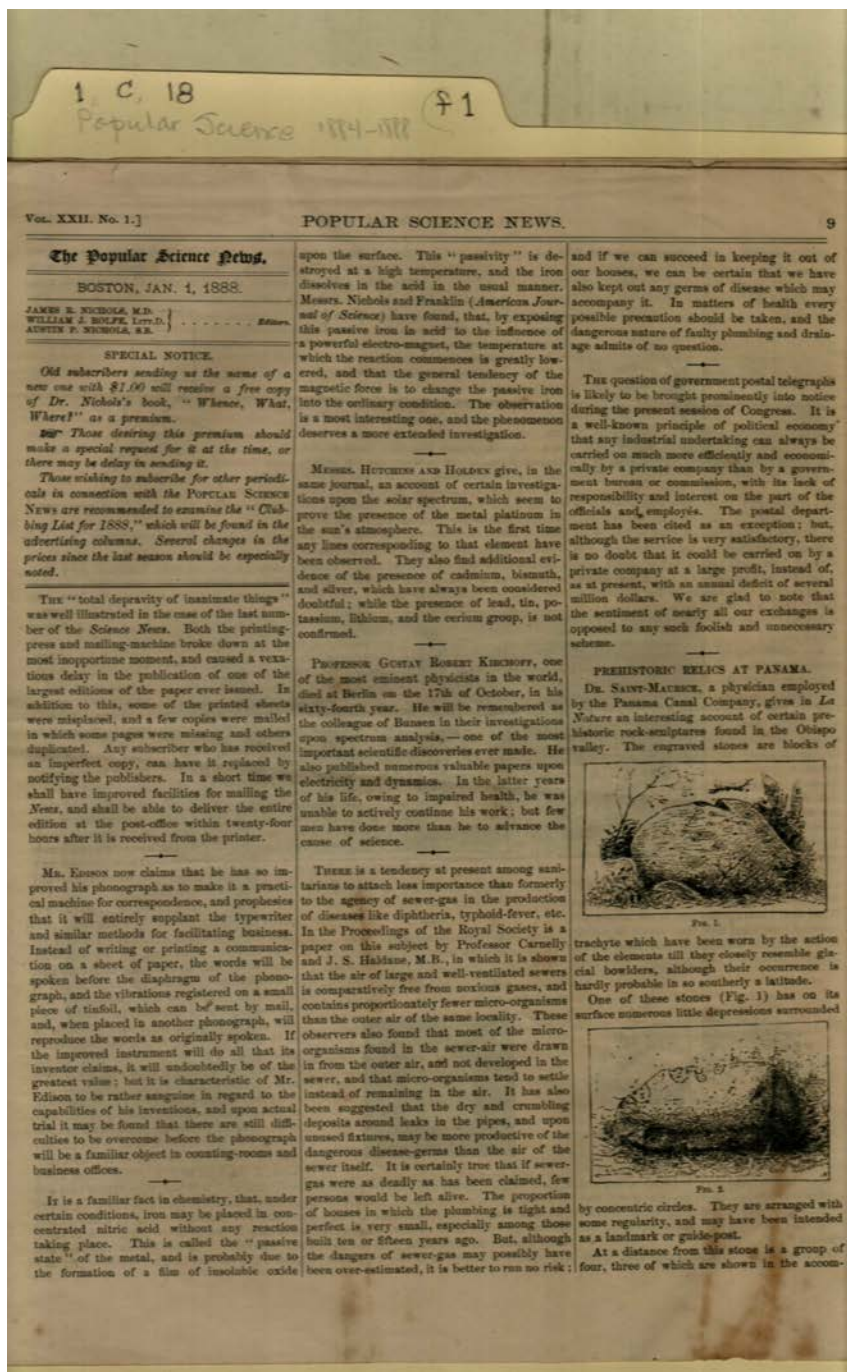
Boston

**Types:**

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**Dates:**

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**Names:**  
 Prehistoric Relics at  
 Panama

**Places:**  
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**Types:**  
 magazine

**Dates:**  
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panying engravings. One is engraved with a number of human faces, some of which are drawn with small horns on the forehead; another has only one face, quite deeply cut; another has a sort of scale divided into six




FIG. 2.

teen parts; while the fourth stone, which is not illustrated, is marked with two crosses, very much defaced, and a kind of horizontal cartouche rounded at the extremities and divided into eight parts. The horns with which the human faces in Fig. 2 are drawn, recall to mind the passages in the Bible where the "horns of the righteous" is referred to.

The significance of these markings is unknown; but the depressions, circles, crosses, and graduated scales bear a curious resemblance to the marking on certain prehistoric dolmens in France and England, notably one near Plouharnel in Brittany. Their age is uncertain. They doubtless belong to the neolithic or polished-stone age, as is shown by the numerous stone implements and weapons found near them; but there is no means of knowing how long ago that epoch occurred on the Isthmus, although it was many years probably before the time when the wonderful




FIG. 3.

as more certain knowledge as to how the American continent was originally peopled.

covered or draped with perfectly black paper or cloth. When all is ready, the door is opened, and in the centre of the stage is seen a plaster or pasteboard head (Fig. 1). The

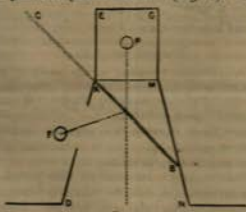


FIG. 1.

exhibitor takes it up and passes it round among the audience, and then returns it to its place. It immediately begins to take on a lifelike expression; the eyes open, the lips smile; and in a few moments the inanimate figure is transformed to a living human head, which even speaks or sings. This begins shortly to fade away, and is transformed into a cabbage, which in turn is replaced by an empty dish which becomes filled with fruit or flowers, which are passed round among the audience. (In restoring the dish to its place, it passes through numerous other transformations, ending finally

The accompanying diagram (Fig. 2) explains the simple means by which these puzzling effects are produced. The line *NMAD* represents the front part of the miniature stage, at the back of which is a table, *AMEG*. Placed diagonally across the stage at *AB* is a piece of plate-glass which completely fills the opening. At *P* is placed the plaster bust, and at *F* the living head into which it is to be transformed, the rest of the body being concealed. Two lamps or gaslights are arranged so as to strongly illuminate the objects alternately.

At the beginning the back part of the stage is illuminated, while the side at *F* is in darkness. The light from the object at *P* passes directly through the glass, which is not visible; and the bust is in full view of the audience. Then, if the light at *P* is slowly turned down while that at *F* is raised, the artificial bust will appear to transform itself into the living head; the sheet of glass now acting as a mirror, and reflecting the image of the object at *F* towards the spectators. Meanwhile an assistant has placed the cabbage or other object at *P*; and

**THE DISSOLVING SPECTER.**  
 A CURIOUS OPTICAL ILLUSION.

A WRITER in a recent number of *La Nature* describes a most ingenious and beautiful optical illusion, which requires no apparatus except




FIG. 4.

a piece of plate-glass, and can be performed by any one for a winter evening's amusement. A small stage is improvised in a doorway between two adjoining rooms. The opening facing the audience should be from one to two feet square, and all parts of the stage must be

buildings and monuments of Mexico and Yucatan were erected. This ancient civilization never flourished on the Isthmus, but was confined to the countries to the north and south. No ancient ruins or burial places have been found in the region adjoining the Panama Canal.

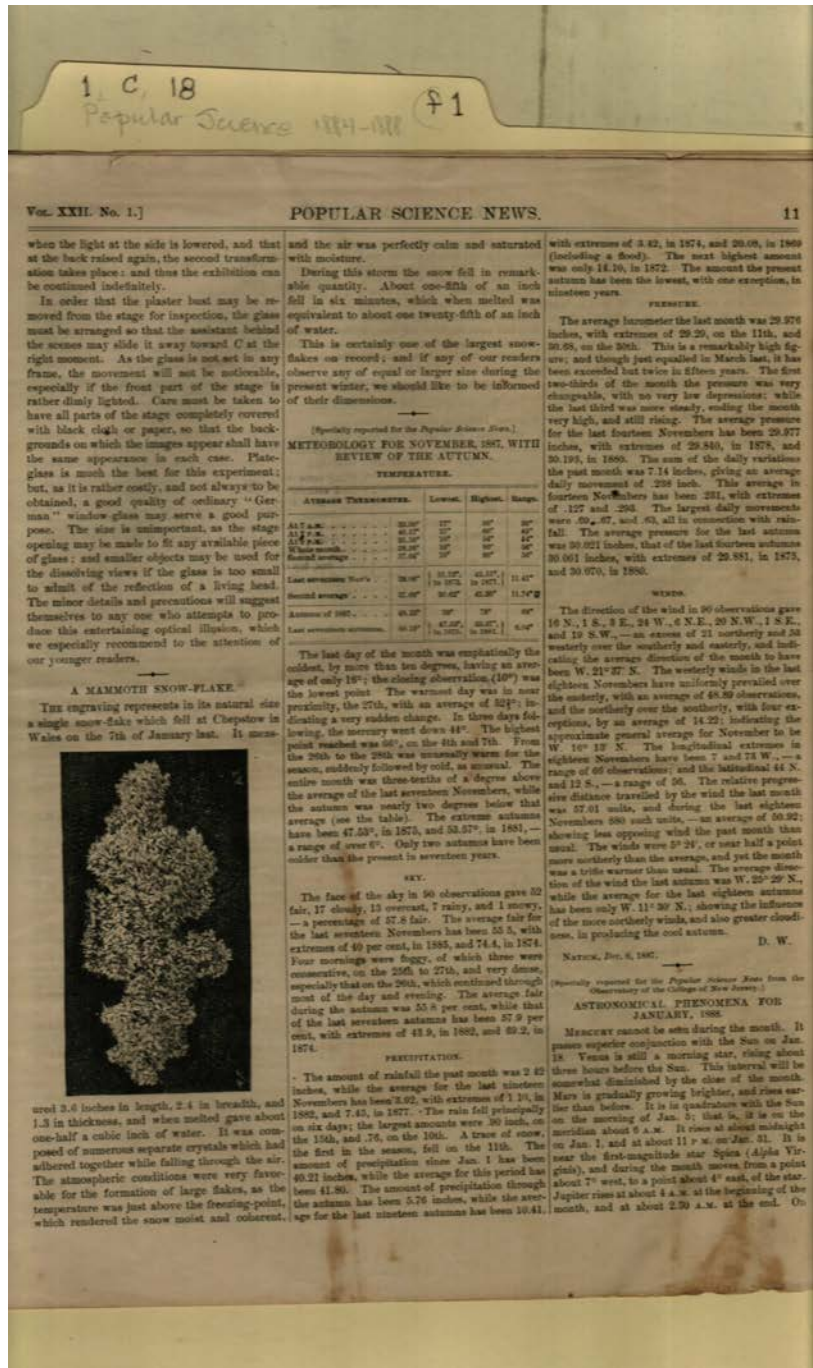
Farther to the north, near Chiriqui, speci-

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**Names:**

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Flake

Astronomical  
Phenomena For

January 1888

Meteorology for  
November 1887

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**Types:**

magazine

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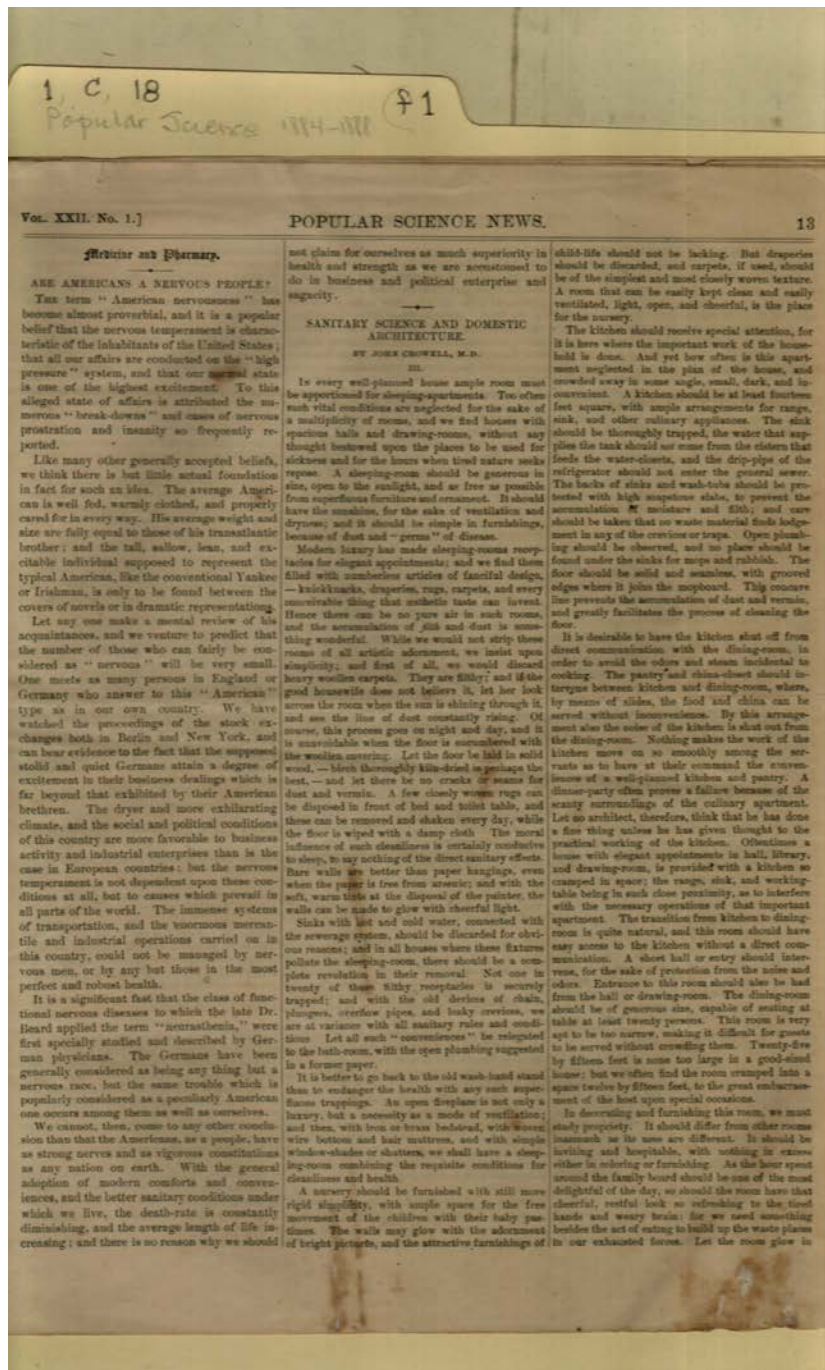
**Names:**  
 Parasites of the House Fly

**Places:**  
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**Types:**  
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Are Americans a Nervous People?

Sanitary Science

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**Patenters' Column.**

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All your machines have given perfect satisfaction, and have exceeded in production the guaranteed capacity. We can truly say that the New Improved Boyle is the "Best Ideal" of Ice Machines.

Yours very truly,  
 W. J. BARNETT, Gen'l. Manager,  
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the part from some neighboring latarium-trees. The nurse in charge, on going into the yard at about three P. M., found a girl vomiting; and in the course of a few minutes five other girls commenced to vomit. They were all very white, complained of pain in their heads, and were shivering. At eight P. M. one girl was covered from head to foot with an eruption of large red patches, much resembling scarlatina. All the patients recovered under appropriate treatment.

**THE RESISTANCE OF COPPER IN FELLING'S SOLUTION WITH CHLORAL HYDRATE.**—On applying Felling's test to a specimen of uric acid sent to him for examination, Dr. O. W. Starvin found the copper reduced as with diabetic uric acid, while the specific gravity was only 1.015. On inquiry he found that a few grains of chloral hydrate had been added to the urine to prevent decomposition. On further trial he found that a very weak solution of chloral hydrate in clear water would reduce the copper. In two cases, after the internal administration of medicinal doses of chloral, the characteristic reaction was produced on testing the uric acid with the copper solution. Two days afterwards the uric acid in neither case showed any signs of sugar.

**DEATH OF AN AGED PHYSICIAN.**—Dr. Nettle-witch of Lunenburg, in Poland, has lately died at the age of one hundred and nine years, leaving a quarter of an hour before his death, seen and proffered for a patient. Sixteen years ago he had a paralytic stroke affecting both his feet, so that he has since that time been obliged to confine his professional advice to the consulting-room.

**HUMORS.**

A TEACHER said to a member of the State Board of Health who was investigating the condition of her room, "No, I haven't any humors; I don't see any use for them."—"But how do you keep the air pure?"—"Oh, I've got a thermometer."

A COLORED man who had been bitten by a rattlesnake claimed to have been cured by whiskey and an application of raw chicken-flesh. It is hard to tell which had the power to effect a cure, but the colored race and the chicken draw pretty well together.

"To what do you attribute the curative properties of your springs?" asked a visitor at a health resort. "Well," answered the proprietor thoughtfully, "I guess the advertising I've done has had something to do with it."

**THE HORSE BLEW FIRST.**—A veterinary student, having been sent to administer a dose to a sick horse, was asked by his preceptor what success he met with. "None at all," he replied; "the horse bit me." The preceptor then explained that he should have put the powder into a medicine-tube, and, plugging one end in the side of the horse's mouth, blew it into his throat; whereupon the student proceeded to act upon the suggestion. Returning again, he was asked what success he had this time. "None at all," he replied; "the horse blew first!"

**THE GIRARD-HOUSE MEDICINE-CUP.**—In the Girard House, a large hotel of Philadelphia, there is a white marble hot-water fountain, with a silver cup dangling from a chain. So many people have been taking pills, cod-liver oil, cough-mixtures, and other decoctions, with the help of the silver cup, that the cup got to taste like all the medicines that were mixed in it, and it smelt like a drug-store. Recently another silver cup was chained to the fountain; and over the old one hung a sign which read, "This is the medicine-cup."

**Names:**  
 Humors

**Places:**  
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**Types:**  
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**Dates:**  
 January 1888

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# Frances Cabaniss Roberts Collection

**Preferred Citation:** Frances Cabaniss Roberts Collection, Archives and Special Collections, M. Louis Salmon Library, University of Alabama in Huntsville, Huntsville, AL.

**Collection Scope and Content:** The Collection of 114 Linear ft. includes a total of 156 Archival Boxes. The Frances Cabaniss Roberts collection covers the historical records of the Cabaniss Roberts family. This collection contains extensive correspondence records of the Cabaniss Roberts family circa 1830 to 1930.

**Archives/Special Collections Access Restrictions:** None

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