SCIENCE AND INDUSTRY.

—Experiments in England show that gaslight has greater penetrating power in a fog than electric light of the same intensity.

—An Australian has devised a scheme for bringing down rain to order. He has a balloon charged with dynamite underneath it, which is fired off by wire connecting with the earth when the balloon reaches the clouds.

—Ildo Camsdell, the editor of an Atlanta (Ga.) journal, has discovered a process in photo-lithography, which, according to Mr. Howell, of the Atlanta *Constitution*, "will introduce into the art of printing possibilities never yet dreamed of."

—In skinning calves the French mode is to make a hole, insert the nozzle of a bellows, and blow the skin from the flesh. For this reason alone, it is said, French calf-skin is superior to that made in this country, where knives are used in the skinning process.

—Every one has heard of condensed milk, but condensed, or rather, solidified drinks of a more potent nature are a novelty. An ingenious French chemist has discovered a method by which any wine, spirit or malt liquor can be solidified into a cake, like chocolate, and so conveniently carried about in the pockets of the thirsty.

—A merchant of Sandy Hill, N. Y., has completed a curious ten-stringed musical instrument, said to have been constructed after the model of one found in the ruins of Pompeii. The frame is made from wood of a chair owned by General Philip Schuyler, a century ago, and a piece of cherry two hundred years old.—*N. Y. Times.*

—Dry pocket-glue is made of twelve parts of good glue and five parts of sugar. The glue is boiled until it is entirely dissolved, the sugar is then put into the glue, and the mass is evaporated until it hardens on cooling. Lukewarm water melts it very readily, and it is excellent for use in causing paper to adhere firmly, cleanly, and without producing any disagreeable odor.—*Exchange.*

—An improved fishhook has been invented by a Southern sportsman. About midway up the shaft of the hook he places a small crossbar, which serves three purposes. First, it prevents the fish from swallowing the hook; second, it increases the chances of capture, for the reason that when a fish strikes its nose against the projection it involuntarily closes its mouth, and so is securely caught; and third, it prevents the bait from slipping up the hook.

—That the small coins of all nations may be a most potent factor in disseminating disease is a discovery due to the researches of Dr. Reinch. Taking specimens of coin which had been long in circulation, he scraped off the thin organic incrustations, which he then divided into small pieces and dissolved in distilled water. Microscopic inspection of the solution disclosed abundance of bacteria and vegetable fungi. After this there is ample reason for caution in handling money made of metal; of the danger of filthy paper currency the public has long been aware.

PITH AND POINT.

—The cheaper the cigar the more persistently does the cheap smoker puff it in the faces of his fellow travelers.—*Lowell Courier.*

—A writer in a health publication advises people to "live in the sun." But how under the sun are people going to do it.—*Boston Transcript.*

—The census proves that the number of persons in a family in this country is a small fraction over five. In some families the husband is the small fraction over.—*Boston Transcript.*

—"The Pies My Mother Made" is a new song, it is said, but it is not. Every young husband has sung it for the last two centuries.—*Philadelphia Call.*

—Some one has discovered that the high-heeled shoes worn by women produce softening of the brain. It was not generally known that the brains of women who wear such shoes was located so low; but it seems plausible enough.—*Norristown Herald.*

—A tree in Milford, Mass., to which George Washington tied his horse in about 1760, was recently cut down and will be converted into mementoes. Although not a very large tree, it is estimated that it will produce about 750,000 canes, several hundred arm chairs, about the same number of lounges, four score of bedsteads, and 1,000 piano stools. The rest will be converted into toothpicks and umbrella handles.—*Exchange.*

—A would-be society beau, whose grandfather had been a successful shoemaker, impertinently remarked upon Miss Aurelia H——'s feet, and said they were very pretty. Miss H—— met the young braggart soon after at a party, and taking occasion to be heard by the bystanders, she said "I hear that you have been making remarks about the fit of my boots. If you intend opening a shoe shop I shall be delighted to continue the patronage which was begun by our family when your grandfather was a shoemaker."—*Harper's Bazar.*

—He was seated across the room. "George," she said, "if a fire were suddenly to break out in the house, what would be your first impulse, do you think?" "Well, my first thought would be of you, of course. I would get you to a place of safety, and then do what I could to extinguish the flames." "That would be very nice of you, George, to think of me first; but if a fire were to break out now for instance, wouldn't you lose valuable time reaching me from way across the room?" "I don't know but I would," said George, as he changed his seat.

—"Do you see that man walking along there?" said Jones to a New Yorker as a nice-looking party went by on Fourth street last Tuesday. "Yes," was the reply. "Well, sir, that man has killed men, women and children in his time." "Heavens! Why don't they hang him?" "Can't do it. Hanging's played out in this country." "Wasn't he ever arrested?" "Not that I know of." "No wonder you have riots in Cincinnati." "He doesn't look like he was so bloodthirsty. Who is he?" "A doctor." "Oh! h—here's a twenty-five-cent cigar."—*Merchant Traveler.*

—One of the Concord philosophers is credited with lucidly remarking that life means feeling, and feeling means the presence of a principle in all its totality in every portion of an extended whole; only such presence could constitute an extended or a continuous whole, since an extended whole which was not all at once present to something unextended could not be extended. Such life must be worth living.—*Harper's Bazar.*

—Callow youth (before looking-glass, as he stroked his chin): "I think I must get a razor." Sister: "Do, Will. Get a beard-raiser."—*Golden Days.*

Moltke the Silent.

Moltke the Silent—*der Schweiger*—as he is called, is generally considered the greatest, and is certainly the most successful, of living soldiers. His achievements at Koniggratz, Sedan, and Paris have never been surpassed, and compel the admiration of all competent military critics. Silent, quiet, cold, the very incarnation of concentrated thought, just as you see him walking in the streets or moving in a drawing-room, when everybody stands respectfully aside to let him pass—so he stood on the battlefield, his cold clear eye passing slowly from one point to the other, and his cold clear mind weighing the chances of victory and defeat with the intensity and serenity of a mathematician pondering over the solution of some great problem. No one, it is said, has ever seen Count Moltke excited, not even at Sedan, where the greatest victory of modern times decided the fortunes of the two most powerful empires of the Continent. His calmness seems mysterious, almost awful, and there is something strangely sad about that silent, lonely old man. His wife died some years ago; he never had a child; his nearest relations, with the exception of a nephew and a niece, seem to be kept at a distance by him. Who are his companions and his friends? To whom does he ever talk in a friendly, familiar way? Nobody has ever been able to tell me, though I have often inquired. An old man of eighty-four, he still appears without fail wherever duty calls him. He is to be seen at almost all the Emperor's receptions, the most striking personage near the throne. But how does the old Field Marshal pass his time when free from duty, when tired of work? Nobody pretends to know. Either nobody penetrates into his intimacy, or else those who approach him intimately do not speak about it. When the weather is fine you may see a very tall, thin man, with very light yellowish hair and a sallow, beardless, wrinkled face, out of which shine a pair of stony gray eyes, wrapped in a long, dark military coat, a cap on his small head, faultlessly dressed in a General's uniform—a gentleman born in every inch of his aristocratic, slender figure, his body still erect, but his head as in deep thought slightly bent forward—such a man, I say, you may see coming out of the great red building which stands on the Koenigs-Platz, at the corner of "Moltke" and "Bismarck" streets, and which bears the name of "General Stab." The solitary old man, unattended by a servant, walks slowly, noiselessly. Every one who meets him looks at him attentively; if the passer-by is a soldier he stands on one side and salutes. The old General returns the salute slowly and deliberately, but apparently without seeing to whom. Every time I see him the thought occurs to me that in such guise Dante must have passed through the streets of Florence. That is General Field Marshal Count Hellmuth von Moltke, one of the strangest characters the world has ever produced. It is well worth going to Berlin to see that great historical personage.—*Blackwood's Magazine.*

Begging Letters.

Mrs. Vanderbilt and Kitty Wolf and all other rich ladies of this city are obliged to meet the annoyance of begging letters, which indeed is of an incessant character. This is one of the penalties of wealth. Rich men, of whatever position, are annoyed in the same manner. The number of begging letters received by this class is estimated at 500 a week. Jay Gould gets his share, and so does William H. Vanderbilt. Ex-Governor Morgan was innundated by such applications, and now that he is gone, his widow has to endure the same annoyance. As soon as a man does a liberal act he is at once set on by these mendicant letter writers. Hence when it was published that Jay Gould had given $5,000 to the yellow fever sufferers at Memphis, and also that E. D. Morgan had endowed a seminary, and that William H. Vanderbilt had imported the obelisk, each one of these benefactors was made the subject of an attack. This renders the service of a private secretary indispensible, for in addition to reading, is the necessity (in some cases) of a reply. R. L. and A. Stewart used to answer begging letters, because unless this was done the writer might think his application failed to reach them, and would therefore repeat it. Robert Bonner, of the *Ledger*, unfortunately was paragraphed as having given a bell to a western church. Immediately a hundred bells were applied for, and he had to stop at once or he might have continued giving away bells to the present day. However liberal men of wealth may be, they generally prefer to select the object of their beneficence. This custom of writing begging letters is of unlimited extent. Rogers, the London poet banker, once said to a friend "the letters I receive from strangers of both sexes asking for money are really innumerable. I lately had a begging epistle from a woman, which I did not answer, and a day or two afterward another came, beginning 'Unkind one.'" Rogers was a very liberal man, but like other men of wealth, he had his preferences in the matter of charity.—*N. Y. Cor. Utica Herald.*

The First Watch.

At first the watch was about the size of a desert plate. It had weights and was used as a "pocket clock." The earliest known use of the modern name occurs in the record of 1552, which mentions that Edward VI. had "one larum or watch of iron, the case being likewise of iron gilt, with two plummets of lead." The first watch may really be supposed to be of rude execution. The first great improvement was in 1560. The earliest springs were not coiled, but only straight pieces of steel. Early watches had only one hand, and being wound up twice a day, they could not be expected to keep the time of day exactly. The dials were of silver and of brass; the cases had no crystals, but opened at the back and front and were four or five inches in diameter. A plain watch cost more than $1,500, and after one was ordered it took a year to make it.—*Pittsburgh Dispatch.*

—Edwin C. Burt, the widely-known shoe man, is dead. He was sixty-six years old and enjoyed the reputation of having furnished more ladies and children with shoes than any other manufacturer in this country.—*Boston Post.*

—"How do you like it?" asked a yachtsman of a young lady as the boat went up and down in the trough of the waves. "Oh, I—I—it's too awfully swell!" was the distressed reply.

—San Francisco has 3,500 Chinamen in cigar factories, and dealers are training white boys and girls to take their places.

A Wonderful Substance.

Among the most interesting developments which have followed in the wake of the discovery of petroleum is the immense trade which has sprung up in ozokerite, or ozocerite, as Webster has it. No fairer substance ever sprang from most unpromising parentage than the snowy, pure, tasteless, opalescent wax which is evolved from the loud smelling, pitchy dregs of the petroleum still. The *Mining Review* thus sums up the many uses to which this remarkable substance is applied: This comely, impressionable article, with all its smooth, soft beauty, defies agents which can destroy the precious metals and eat up the hardest steel as water dissolves sugar. Sulphuric and other potent acids have no more effect on ozokerite than spring water. It is alike impervious to acid and to moisture. Its advent seems to have been a special dispensation in this age of electricity.

Every overhead electric light cable or underground conduit, or slender wire, cunningly wrapped with cotton thread; all these owe their fitness for conducting the subtle fluid to the presence of this wax. And in still more familiar forms let us outline the utility of this substance. Every gushing school girl who sinks her white teeth into chewing gum chews this paraffine wax. Every caramel she eats contains this wax, and is wrapped in paper saturated with the same substance. The gloss seen upon hundreds of varieties of confectionery is due to the presence of this ingredient of petroleum, used to give the articles a certain consistency, as the laundress uses starch. So that a product taken from the dirtiest, worst-smelling of tars finds its way to the millionaire's mansion, an honored servitor. It aids to make possible the electric radiance that floods his rooms; or, in the form of wax candles, sheds a softer luster over the scene. It polishes the floor for the feet of his guests, and it melts in their mouths in the costliest candies. For the insulation of electric wire, paraffine wax has to-day no successful rival, and the growth of the demand for this purpose keeps pace with the marvelous growth of the electric lighting system. A single Chicago firm buys paraffine wax by the car load. Its price is but half that of beeswax, and yet the older wax yields readily to sulphuric or other acid, this being a test for the presence of beeswax in paraffine. The demand for paraffine for candles as yet heads the list.

Then comes the needs of the paper consumers. In 1877 a single firm in New York handled 14,000 reams of waxed paper. Not only for wrapping candy is this paper valuable, but fine cutlery, hardware, etc., incased in waxed paper is safe from the encroachment of rust or dampness. Fish and butter and a score of other articles are also thus wrapped, and there seems literally no end to the uses found for the paper saturated with this pure hydrocarbon. In the chemist's laboratory it is invaluable as a coating for articles exposed to all manner of powerful dissolvents; brewers find it a capital thing for coating the interior of barrels, and the maker of wax flowers simulates nature in sheets of paraffine. And yet, until Drake drilled his oil well in 1859, the existence in this country of this boon to civilization was unsuspected, and it lay in the depths of Pennsylvania rocks, where thousands, possibly millions, of years ago it was stored by the hand of an all-wise Creator.—*Scientific American.*

Acupuncture for Cholera in China.

The employment of acupuncture and cauterization by Chinese doctors forms the subject of an article in one of the last numbers of the *North China Herald*. A native public writer not long since claimed that a skillful physician in this department of medicine could cure such diseases as imbecility, fits, cholera etc. The principle of cauterization is simply that of counter-irritation, and the English writer bears personal testimony to its efficacy in the case of a slight sunstroke, although the operator was a simple Manchu peasant and the instrument a couple of copper coins. Very extraordinary cures are attributed to acupuncture by the Chinese. It is first performed in the hollow of the elbow of each arm. If the puncture draws blood there is no danger, but if no blood appears the case is regarded as very grave. But before abandoning the sufferer puncture of the abdomen is tried. Seizing a handful of flesh, the operator drives the needle right through it, and then draws it backward and forward a few times. If the patient manifests any sense of pain, or if any blood is drawn, a poultice of egg and buckwheat flour is applied over the puncture, and recovery is regarded as almost certain; but if no pain is felt and no blood flows the case is declared hopeless, and the sufferer is left to die. The case is then quoted of a young Chinese educated abroad, who was attacked with cholera: his extremities became cold, and cramp set in, in a somewhat alarming manner. The barber surgeon who was called in, commenced by running a needle into the pit of the patient's stomach, a jet of very dark blood following; he then punctured the calf, the two breasts, and the forehead of the sufferer, freeing a certain quantity of blood at each prick. The relief is said to have been instantaneous, and in two days recovery was complete. The Chinese explanation of this treatment is that when the blood is in the poisoned condition which induces the choleraic symptoms it becomes thick, and accumulates in certain portions of the body. A clever surgeon knows exactly how to put his fingers on the particular spots, and by skillfully "opening the mouth of the heart," as the operation is called, sets free the poisoned fluid which causes all the mischief. It is noteworthy that faith in the efficacy of this mode of treatment is not confined to the masses, but is shared by Chinese who have been abroad and have had ample experience of Western medical practice.—*Nature.*

—On a back street in Saratoga is a little meeting-house for Free Methodists, who aim to be extremely primitive, and who have undertaken to reform the frivolities of fashion as displayed by the summer residents. Every afternoon a small company of women, plainly clad, kneel solemnly in prayer for their sisters who delight in more elaborate clothes. There is thus far no perceptible effect.—*Troy Times.*

—About six hundred German newspapers are published in the United States, of which seven are in the New England States, 208 in the middle States, 85 in the Southern States and 350 in the Western States.

THE BIG BREWERY.

Mr. J. Hirsch, College Point Brewery, L. I., N. Y., writes that he employs a large number of horses and hands, and having tried St. Jacobs Oil, the great pain-cure, for rhematism, aches and pains of his men, and for galls, splints, thrush, windgalls and other affections of his horses, finds it superior to all remedies, and would not be without it.

"SPLENDID RESULTS."

This is the decided affirmation of a gentleman in Troy, New York, after a month's trial of Compound Oxygen in his family. The great improvement in his wife's condition, is very remarkable indeed.

"My wife had much soreness in her lungs, and a constant depressed feeling, as if a weight was laid upon them. We had just buried a daughter who had been nearly a year sick with consumption, and constant care of her produced these injurious results. I felt much worried in consequence. *Four days' use of the Treatment and the appetite began to mend. Two weeks and she felt like a different person.* The soreness has almost entirely disappeared, and *she can breathe deeper now than she has been able to do for years*, goes out in all weather, and is able to do an amount of 'Chrismas shopping' that is very trying to my pocket-book. Besides my wife, other members of the family have *used it as a general tonic, with splendid results.*"

Our "*Treatise on Compound Oxygen*," containing a history of the discovery and mode of action of this remarkable curative agent, and a large record of surprising cures in Consumption, Catarrh, Neuralgia, Bronchitis, Asthma, etc., and a wide range of chronic diseases, will be *sent free*. Address DRS. STARKEY & PALEN, 1109 and 1111 Girard street, Philadelphia.

All orders for the Compound Oxygen Home Treatment directed to H. E. Mathews, 606 Montgomery street, San Francisco, will be filled on the same terms as if sent directly to us in Philadelphia.

Up in arms—the squalling infant at midnight.

* * * * Pile tumors cured in ten days, rupture in four weeks. Address World's Dispensary Medical Association, Buffalo, N. Y.

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A REMEDY FOR LUNG DISEASES.

Dr. Robert Newton, late President of the Eclectic College, of the city of New York, and formerly of Cincinnati, Ohio, used DR. WM. HALL'S BALSAM very extensively in his practice, as many of his patients now living, and restored to health by the use of this invaluable medicine, can amply testify. He always said that so good a remedy ought not to be considered merely as a patent medicine, but that it ought to be prescribed freely by every physician as a sovereign remedy in all cases of Lung diseases. It cures Consumption, and all pectoral complaints.

☞FARMERS, WHEN YOU VISIT SAN Francisco remember that the American Exchange Hotel continues to be the farmers' headquarters; under the experienced management of Charles Montgomery, the traveling public are assured of fair, honorable treatment; board and room per day, $1, $1.25 and $1.50; nice single rooms, 50 cents per night; this hotel stands at the head of the list for respectability, and consequently is doing an extensive family business; it is strictly a temperance hotel, having no connection directly or indirectly with a saloon that is next door in the same building; Montgomery's Temperance Hotel on Second street was the first temperance hotel ever started in San Francisco (14 years ago) and has the largest number of steady patrons of any hotel in the State; board and room, $4 to $5 per week, or 75 cents to $1 per day; single rooms, 25 to 50 cents per night; when you visit the city don't forget to try either the American Exchange or Montgomery's Hotel; both hotels have free coaches to and from all steamers and trains.

CHARLES MONTGOMERY, Proprietor.

A tea made of lettuce leaves is good for wakefulness.

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When Napoleon talked of invading Italy one of his officers said: "But, sire, remember the Alps." To an ordinary man these would have seemed simply insurmountable, but Napoleon responded eagerly: "There shall be no Alps." So the famous Simplon pass was made. Disease, like a mountain, stands in the way of fame, fortune and honor to many who by Dr. Pierce's "Golden Medical Discovery" might be healed and so the mountain would disappear. It is specific for all blood, chronic lung and liver diseases, such as consumption (which is scrofula of the lungs), pimples, blotches, eruptions, tumors, swellings, fever-sores and kindred complaints.

Equal parts of chloroform and alcohol will remove paint spots from cotton goods.

If you want a good smoke, try "Seal of North Carolina," plug cut."

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CATARRH—A New Treatment whereby a permanent cure is effected in from one to three applications. Particulars and treatise free on receipt of stamp. A. H. DIXON & SON, 305 King street west, Toronto, Can.

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SYMPTOMS OF A TORPID LIVER.

Loss of appetite, Nausea, bowels costive, Pain in the Head, with a dull sensation in the back part, Pain under the shoulder-blade, fullness after eating, with a disinclination to exertion of body or mind, Irritability of temper, Low spirits, Loss of memory, with a feeling of having neglected some duty, weariness, Dizziness, Fluttering of the Heart, Dots before the eyes, Yellow Skin, Headache, Restlessness at night, highly colored Urine.

IF THESE WARNINGS ARE UNHEEDED, SERIOUS DISEASES WILL SOON BE DEVELOPED.

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They go hand in hand, and lead their victim a terrible trot down into the valley of the shadow of death. One is neuralgia, the other rhematism. These generally proceed from disordered blood. Brown's Iron Bitters knocks out these ugly twins by setting the blood aright and invigorating the system. Mr. W. T. Osborne, of Coxville, Ala., used Brown's Iron Bitters for rheumatism and neuralgia with most happy effect. It also cures dyspepsia.

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Little things may help a man to rise—a bent pin in an easy chair for instance. Dr. Pierce's "Pleasant Purgative Pellets" are small things, pleasant to take, and they cure sick-headaches, relieve torpid livers and do wonders. Being purely vegetable, they cannot harm any one. All druggists.

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