## TASTE AND SMELL UTLLIZED.

The tao senses of tasting and smelling are usually consid ered mainly as servants, capable of contributing to our luxurious pleasures, rather than as aids to business success; yet some departments of business could hardly be conducted without their employment. The sale and purchase of liquors and wines are consummated almost entirely by the help of taste and smell. Although the strength may be judged of the size and appearance of bubbles formed when shaten, by the eize and appearance of bubbles formed when shaken,
by the sinking or floating of olive oil in them, and their ap. by the sinking or floating of olive oil in them, and their ap-
pearance when turned, yet the expert judges more readily peaiance when turned, yet the expert judges more readily
and correctly of their strength, as well as purity, flavor, etc., by tasting and smelling. In the great wine marts of Europe the business of wine taster is a distinct profesion. Tobacco and hops are judged by the purchaser fully as much by smell as by sight and touch ; and it is wonderful what expertness is attained by professional judges by the cultivation of this srvee ; their judgment being practically infallible.
But the testing of tea exhibits, in a more marked manner, the use of taste and smell in mercantile transactions. In every wholesale tea house will be found a row of tea cups with a little furnace or lamp for heating water. There is no sugar or milk. In the side of every chest of tea, ranged in tiers along the walls, is a small hole stopped by a cork. The taster draws the cork, takes a few grains of tea in his hand, smells it, then puts it in a cup, pours a litlle hot water on it, tastes, and his judgment is formed, the cbaracter of the tea is fised. Frequently the smelling is sufficient, and it is remarkable how absolutely and decidedly the professional 1 aster $d$ tclares the character of the article he has tasted. Not less remarkable is the fact that there is seldom any marked disagreement between the estimates made by differ ent individuale. The profession of tea taster in our large ent individuals. The profession of tea taster in our large
cities is frequently quite lucrative. Merchants purchase cities is frequently quite lucrative. Merchants purchase
largely, relying implicitly on the representaions of the exlargely, relying implicitly on the representaions of the ex-
pert; and it is seldom their confidence is misplaced, whattver "tricks. of the trade" there may be attempted to deceive the taster.
The giit, if so it may be called, of being a successful tea taster, is not gencral, although it might be supposed that experience would be all that is neceseary to insure perfection, or at least an approximation to it. The profession is severely taxing to the nervous system, affecting the subject simi larly to alcohol or tobacco when used to excees.

## Submarine Perambulation.

The Nouvelliste of Mareelles gives a very minute account of the system employed there for working under water. Fulton, it informs us, was the first to solve the problem of a submarine veseel, which he built of copper for purposes of naval wariare, but was obliged to give up the plan because of the
cifficulty of supplying the cifficulty of supplying the men with air, especially when they were to operate at a distance from the apparatus; and, moreover, his method of propulsion was defective, consisting o: jointed oars that could not afford a grester speed than 400 yard per hour. At present many wass have been devised for $\mathrm{r} \in$ moving those obstacles. The air is supplied by a mechanical and chemical process combined. Before the vessel is let down a provision of compressed air is secured by means of pun.ps, and distributed among the various compartments; it is calculated to balance the preseure of the column of water she is to encounter at the depth required. The immereion of the suhmarine boat is obtained by increasing her specific
weight through the introduction of water into its reservoirs; weight through the introduction of water into its reservoirs;
the immersion is effected by the expuleion of this water, which latter therefore acts as a moveable ballast. The boat's center of gravity is so arranged as to make her touch the bottom with her base flat, and almost without a shock. When the ground has not been explored before, the vessel is kept in suspension until, by a skillful manceuvre, a proper place is found for her. By ingenious contrivances an exact equilibrium is obtained between the compressed air and the column of water, and the trap doors communicating with the bed of of water, and the trap doors communicating with the bed of
the sea are then opened. The men, standing with their feet the sea are then opened. The men, standing with their feet
on the jatter, but having their heads still in the chamber containing their supply of air carry the boat to the spot they want to explore; but if they find it necessary to leave the craft, each puts on his scapbander, or water tight helmet, pro. vided with a hose, through which he receives air from the versel, and which is screwed to one of the reservoirs of compressed air, and can thus worl at a tolerable distance from the boat.

## (CAttorial Summary.

A Splendid Bequest.-It is understood in private circles, that Henry Keep, Esq., of this city, whose name is very prominent in the railroad interests, has purchased the block of ground on the Fifth avenue, opposite the Roman Catholic Orphan Asylum, consisting of twelve city lots, whereon he proposes to erect, at his own expense, and for the benefit of the city, an elegant art gallery. The price paid for the ground is $\$ 260,000$, and it is understood that Mr. Keep will expend nearly a million of dollars upon the building. Mr. Keep began life a poor boy, and as a reward for his energy and integrity he has amassed a large fortune, and now proposes to spend some portion of it for the good of the people. The particulars of this noble bequest have not yet bren made public.
The atmosphere in the tunnels of the Metropolitan Railway in London is reported to be absolutely poisonous, and without any sufficient cause, as their proper ventilation is perfectly practicable. Several deaths are reported as having occurred in these neglected passages, and the compulsory purchase of the road by the Government is loudly demanded ly some of the English journals.

Smogy Chimneys.-A correspondent of the Builder sub mits a simple and cheap remedy for smoky flues, which is mits a simple and cheap remedy for smoky flues, which is
etated to be successful in eight out of ten bad chimneys. stated to be successful in tight out of ten bad chimneys.
The principle upon which it depends is sound, and its use would obviate, in many instances, the employment of the unsightly chimney.tops wbich so often mar the architectura effect of otberwise fine buildings, without answering the de sired end. He says: "I find from experience that, by the use of fine wire gauze of from thirty-six to forty wires to the inch, as a screen, blower, or guard, judiciously applied to re gieter stones, ranges, or stove doors, little if any smoke will come into the room. The atmospheric pressure prevents the moke entering the room through the gauze, and if applied immediately to the front of the fire more smoke will be consumed than by any other means. In that case the wire should be ke
fire."

How not to Straiguten Curly Hair.-Two different ap plications for patents were lately made for compounds, claimed o take the natural curl out of the hair of negroes and make it straight. In one of the compounds, the chief ingredient was extract of Iceland moss, and in the other nitricacid $\mathbf{N ~}_{5}$. It was proved by actual experiment, to the satisfaction of the examiner that neither of these compounds would accomplish the result, and the claims were refused. Evijently the applicants only wanted patents as a recommendation to induce as many coloted people as possible to try a bottle of the worth less stuff: Indeed, if every colored woman in the United States would only spend fifty cents to buy the remedy, being persuaded to do so by the recommendation of a United States patent, the patentees would make a nice litte fortune. The result of these applications shows the value of a preliminary investigation into the merits of alleged new discoveries.

The enterprising city of Chicago is to have a grand park to be located on the Riverside Farm, about seven miles out of the city, and known as the Gage property-owned by D. A. Gage, of the Sherman House, embracing about eleven hundred acres, and to be connected to the city by a broad boule vard. The pars is to be laid out in winding avenues for drives, and the grounds will be offered by the proprittors as sites for the erection of suburban residences. This strikes us as a very sensible project, and the natural advantages of
Clicago will place the proposed park witbin easy access of those who seek for rural beauty and homestead enjoyment.
Wooden Parasols.-The wooden parasols which were in troduced extensively in the French capital and will likely find patrons in other fashionable centers, may thus be deecribed: They are painted to represent peacocks' feathers, each feather being a separate rib, like those of a fan. By ingenious mecbanism they can be fastened into the form of a parasol, and can also be folded up into as small a compass as a fan, which purpose they answer admirably. They also can be turned fito a variety of things, and have joints by which they shade the wearer on any side where the sun is too pow erful.
Tine Abyssinian King- ${ }^{\text {Theodore-wished his captains to }}$ attack the British by night, but preferring to meet death by daylight they declined the proposition. Had they accepted, it is doubtful whetber they would not have been put to rout
without a single shot, by the magnesium light Sir Robert without a single shot, by the magnesium light Sir Robert Napier carried with him on the expedition. Had they stood their ground in face of the blaze of light thrown directly in their faces from a distance of 600 yards, the Enghsh shielded by the night could have picked them off at their leisure.

The first Northwestern Woolen Exposition and Conven tion of Wool Growers and Manufacturers at Chicago, opened August 4th. It promises to be interesting. Mr. W. G. Couler, in his speech during the second day's procesdings, stated that the superior facilities possessed by Western woolen man ufacturers were nearly 25 per cent. in their favor over those possessed by the New England States. Fifteen hundred dif-
ferent lo:s of goods are on view,and many distinguished agriculturalists, wool growers, and manufacturers are present.
A correspondent from Franblin, N.Y., sent, some days ago, communication in regard to some reporte heard by many in dividuals in that locality. By some mischance the communi cation was mislaid. The explosions occurred at a time when
the sky was cloudless, and we learn from a second communication that they have been ascribed to the falling of a meteor The reports were so loud in some cases as to severely jar houres and cause dishes to rattle, etc.

The Revue Populaire, of Paris, gives an account of some very curious experiments made by Dr. Claude Bernard. If oxygenized blood be injected into the arteries of the neck im mediately after decapitation, warmth and sensibility return the eye gets animated and displays such perception that an object shaken before it will cause winking of the eyelids and movements of eyeballs as though to avoid injury.
The dwellings found at the bottom of the fresh water lochs in Scotland continue to be discovered in various parts of the couvtry and are attracting great attention, as throwing light upon the habits and history of the Crltic race which for many centuries inhabited that country. The first one was brought to light by the draining of a loch on the property of the late Mr. F. D. P. Asley, in Arisaig.

Russia will soon have the Black Sea and the Baltic in direct railway connection. This was a long contemplated project and will not only develop her commerce but enormously increase her defensive power.
$W_{E}$ are in receipt ${ }^{\text {of }}$ several communications requesting information in regard to the spectroscope and spectral analys is. A full description of the instrument and its use, with engravings is to be found upon pages 17 and $18, \mathrm{Vol}$. XV. of the Scientific American.

The Commissioner of Patents has extended the patent of M. A. C. Mcllier, of Paris, for making straw paper. It is a chemical process for reducing straw and other vegetable matter to pulp by the application of a solution of hydrate of soda, also in tbe employment of hypochlorites in the process of bleaching. It is said to be a valuable invention.

Money Packages.-Persons who send money to this office by Express, should always enclose a letter in the envelope along with the money. We frequently receive packages without the accompanying letter and are sometimes botbered oo know who sent it. A letter would save time and trouble.

Another victim to science has fallen on African soil. Le Saint, the geograpber, who had left France about nineteen months ago, has died at Abn Khaka. Malte-Brun has received letters from Alexandria which leave no doubt as to the young traveler's fate.

Crrds W. Field telegraphed from London, A ugust 3d, that he Atlantic cable of 1866 ceased to work about thirty-five minutes past twelve o'clock on that day. The damage is at he Newtoundland side, according to the tests, and is supposed to have been caused by an iceberg.

A petition signed by four hundred ladies has been pre sented to the Russian Minister of Public Instruction, praying that the Professors at the University might give special lectures for ladies, so as to satisfy their legitimate desire for higher instruction.

A spinning wheel made in the year 1768, and in good preservation, was recently sold in Lancaster, Pa ., for ten cents we should think that a poor compliment to the old family iriend.

## OFFICLAL REPORI OF <br> Patents and Clams

Issued by the United States Patent Office,
for the meek ending adgubt 5, 1868.

Patents are granted for seventeen fears, the following | $\mathrm{O}_{2}$ |
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80,534 .-LET-OFF FOR LOOM.-George Draper, Hopcdale,






