Onondaga Salt Group; which was deposited during the Salina period; in a series of shallow, land-locked seas, extending east and west from Eastern New York to Iowa. Evaporation caused a deposition of salt in the bottom of these seas; occasional incursions of ocean water in tides and waves kept up a supply of brine, and the deposition went on so long as favorable conditions continued. The slight dip of all the rock strata of Western New York, fifteen to thirty feet to the mile, in connection with the gradual rise of the surface of the country in the same direction, explains the greater deptl of the salt formation at Wyoming than at Salina, the springs at the latter place being about 200 feet deep.
Tbe well, eight inches in diameter, is cased with an iron ube. Inside of this is a two-inch tube. Pure water from a apring in the near hillside is caused to run into the larger lube. The water, descending to the mine, becomes saturated with salt and is then driven up the smaller tube, from which it is pumped into a huge reservoir and from that drawn into ati evaporating pan, thirty by twelve feet, over a furnace, in which seventy-five barrels of salt can be made in a day. 'The salinometer shows the brine to have a strength of 90 , complete saturation being denoted by 100. Analysis shows the salt to contain only 3 parts of impurities in 1,000

Waterproof Artificial Flowers.-Mrs. Rosa Har den, of Baltimore, Md., has devised a new method of mak ing artificial flowers, by which the natural beauties can be imitated as with wax, while the flowers are durable and washable. The basis of the leaves would appear to be gelatine chemically treated. Very pretty and promising results are said to be possible by the new process.

## the parasites of a monster jelly fish

The discophore known as the Cyanea artica is familiar to very frequenter of the sea shore, where their stranded jelly-like forms can be found after every tide evaporating, as it were, in the summer sun. While afloat and active in the water they afford protection to several parasites that are figured in the accompanying engraving. The large creature hanging from the inner lobe of the jelly fish is a parasitic sea anemone called the Becidium parasiticum. In the engrav ing it is life size, while the Cyanea is reduced greatly. The Actinia is generally found in the larger specimens concealed in the mouth folds, where it shares the food brought up by the tentacles of its protector. In appearance it resembles an elongated cone strongly ribbed along its sides; around its mouth are a few short tentacles. The body is covered with innumerable wrinkles, with which it attaches itself to its post, and to which it is a strong contrast, being violet or brownish-red in color. Two or three can generally be found n them.
The little worm-like creature ${ }^{\bullet}$ shown on the outer edge of he Cyanea is a true parasitic worm, the Mon॰pus medusicola -with a depressed subcylindrical body armed with two suckers. The fore one, strange to say, is imperfect, while he latter-one-third the total length from the tail-is columnar and truncate. In the engraving it is magnified twelve fold.
Besides these, numerous little fishes are found up under the tentacles, that with their terrible lasso cells would serm he last place for a fish to choose as a bome, but here we find them, darting in and out among the treachcrous tentacles, perfectly at their ease.
The Cyanea is a giant among its fellows and attains a diameter of seven feet, with tentacles wo hundred feet long. Mrs Agassiz thus speaks of one: "He was quietly lying near the surface, and did not seem in the least disturbed by the proccediner but allowed the oar, eight feet in length to be laid across the disk, which proved to be about seven feet in diameter. Backing the boat slowly along the line of the ten tacles, which were floating at their utmost extension behind him, we then measured these in the sime manner, and found them to be rather more than fourteen times the length of the oar, thus covering a space of some hundred and twelve feet. This sounds so marvelous that it may be taken as an exaggeration; but though such an estimate could not, of course, be absolutely ac. curate, yet the facts are rather understated than overstated in the dimensions here given. And, indeed, the observation was more careful and precise than the circumstances would lead one to suppose, for the creature lay as quietly, while his measure was taken, as if he had intended to give every facility for the operation."

The different stages of the young of this ani mal are so totally different that they have been described as separate animals, namely Scyphisto ma, Strobila, and Ephyra. This enormous creature is produced by a hydroid measuring about half an inch in height. The eggs are laid in the autumn, and the young, when first hatched, are oval, soon they become pear-shaped and attach themselves to the bottom. Now minute tentacles (never over sixteen) appear, and the creature re sembles a simple polyp. It grows rapidly, con striction taking place along its entire length each one being lobed around its margin, until it finally looks like a pile of inverted scalloped
saucers. The top one dies and falls off, and the others soon separate by the deepening of the constrictions, and swim off, perfect infantile cyaneas, that soon reach a large size, and in turn deposit eggs.

## NEW LIME LIGHT

The lime light illustrated herewith possesses a few nove features of conisiderable value, not the least among which are that it will take a block of common lime of any slape and of any reasonable size, instead of the expensive cylinder usually employed, and that the light being once regulated,


NOVEL LIME LIGHT.
it may be furne up and down from a distance without the necessity of approaching the light for focusing and adjustment.
The particular form of apparatus illustrated is intended chiefly for theaters and other large inclosed areas. The chamber in which the combination of the gases takes place contains a series of perforated metal tubes, one within an other, the function of which is to insure the complete admix ture of the two gases before they arrive at and issue from the burners, which are fixed upon the upper part of the cylindrical chamber.
This feature of the invention is an important one, as itil


THE PARASITES OF A MONSTER JELLY FISH.
ures the perfect union of the gas without introducing an element of resistance to its flow as occurs when gauze, coils of wire, shot, and other obstructions are employed with the idea of deflecting the currents and so of securing combi nation.
For the purpose of regulating the light two levers are pro vided, one on each side of the apparatus. These levers have engraved upou them the names of the gases (oxygen and hydrogen) which they respectively control by means of stop taps. These taps being once adjusted require no further at tention, and the light may be turned up and down and regulated at will by means of the tap shown at the bottom of the apparatus, and which controls the supply of both oxygen and hydrogen. This tap may occupy any convenient position when the light is situated where it is not readily on cion veniently accessible.
The pipe shown in the center ff the apparatus is connected with the ordinary gas service, and supplies gas for the purpose of warming the block of lime, igniting the mixed gases, and preventing explosions. It is stated that the apparatus is so simple that any one may work it with perfect safety, and that it gives ten to twelve times more light than an ordinary burner using the same amount and quality of gas.
The apparatus is being made and int:oduced by the inventors, Messrs. Allen \& Co., of Cardiff, England.

## Chimborazo and Cotopaxi.

A large and distinguished company lately a ssembled at the Royal Institution, Albemarle street, to hear Mr Edward the Royal Institution, Albemarle street, to hear Mr Edward
Whymper describe his ascents of these mountains. His Royal Highness the Prince of Wales, who was attended by Colonel Teesdale, the Marquis of Queensberry, Lord Aber dare, Si . Beaumont and Lady Florence Dixie, Sir Allen Young, Sir T. Fowell Buxton, Mr. W. Spottiswoode, Colonel Grant, and the Dean of St. Paul's, were aronng the audience that filled the lecture theater. Mr. C. E. Mathews, late president of the Alpine Club, took the chair.
It is, unfortunately, impossible in a necessarily short report to give any idea of the charm of the larrative which Mr Whymper had to relate, brightened as it was by many quiet-ly-given touches of humor. Personal matters, however, were only introduced when they served to illustrate some scientific observation. While purely athletic mountaineers had his sympathy in the practice of mountaineering as a sport, Mr. Whymper confessed that his sympathies were much more with those who employed their brains as well as their muscles. His journey to the Andes was to be one of work, and all its arrangements were devised so as to economize time to the uttermost. In observations for altitudes and position, in studying the manners and customs of the country, in photography and sketching, in the collection of objects of interest, from beetles on the summits of went tains to antiquities buried in the ground, he found quite suf ficient to occupy his time. From Bodegas the party was composed of two Swiss mountaineers, the cousins Carrel, of Val Tournanche, Mr. Perring, some muleteers, and their teams. About two tons weight of the most portable and most condensed provisions went out for their use, and irrespective of the things which were bought already tinned, more than 2,000 tins were soldered down. When they reached the summit of Chimborazo, on the 3d of January, reached the summit of Chimborazo, on the 3 of January,
after a most arduous climb, they found the wind blowing at the rate of 50 miles an hour from the northeast, and driving the snow before it. With extreme difficulty a reading of the mercurial barometer was effected. The mercury fell to $14 \cdot 1$ inches with a temperature of $21^{\circ}$ Fah. This beıng worked out, in comparison with a nearly simultaneous observation at Guayaquil, gave 20,545 feet for the height of Chimborazo. They began the descent at 20 minutes past 5 , with scarcely an hour and a quarter of daylight, and reached their camp (about 17,400 feet above the sea level) about 9 P. M., having been out nearly 16 hours, and on foot the whole time.
Passing from an extinct to an active volcano, Mr. Whymper next gave an account of his journey to the crater of Cotopaxi. Obscrving with the telescope, during an enforced stay at Machach1, that much less smoke or vapor was given off at night than by day, he resolved, if possible, to pass a night on the summit. On the 18 h of February the party got to the edge of the crater, having passed almost the whole way from their camp, at a height of 15,000 feet, to the foot of the final cone over snow, and then over ash mixed with ice. The final cone was the steepest part of the ascent, and on their side presented an angle of $36^{\circ}$. When they reacbed the crater vast quantities of smoke and vapor were boinng up. and they could only see portions of the opposite side at intervals, and the bottom not at all. Their tent was pitcled 250 feet from the edge of the crater, and during a violent squall the India rubber floor of the tent was found to be on the point of melting, a maximum thermometer showing a temperature of $110^{\circ}$ on one side of the tent and of but $55^{\circ}$ on the other; in the middle it was $72 \cdot 5^{\circ}$. Outside it was intensely cold, and a ther mometer on the tent cord showed a mirimum of $13^{\circ}$. At night they had a fiue view of the crater, whuch has a dameter from north to south of

