electric phenomena of the leaves of the fly
The dionea muscipula or fly catcher is one of the mos curious examples known of a vegetable gifted with motion curious examples known of a vegetable gifted with motion
The leaves of this plant, which are shown in the an The leaves of this plant, which are shown
nexed engraving, for which we are indebted nexed engraoing, for which we are indebted
to $L a$ Nuture, are terminated by a limb to La Nuture, are terminated by a limb
which carries two concave plates or valves united by a kind of hinge. If an imprudent fly venture to rest upon the inner surface of this trap, the plates, the minute bristles upon which bucome irritated by the presence of a foreign body, suddenly snap together like the c)vers of a book quickly closed. If the insect struggles, the portions adhere more closely, holding him prisoner until he dies or until, tired out, he remains motionless. Then the plates slowly open, ready to close again, however, on the least morement of the fly. If this does not take place, the trap allows its victim to fall out and remains set for new prey

Professor Burdon Sanderson, of the Royal Society, has recently made someinteresting in. vestigations into the electric condition of this singular plant, proving that its movements are duealmost entirely to electrical circumstances. By connecting sometimes the limb and some. times the petiole of a living leaf with the circuit of a galvanometer, two permanent currents have been discovertd, acting in contrary directions, one passing through the limb from base to apex, and the other dirocted from the base of the limb to the base of the petiole. The experiments of Probase of the petiole. The experiments of Professor phenomena heretofore very obscure. The peculiar movements of vegetables, it may be considered as established, result from changes in tension produced in the tissues,either spontaneously or accidentally. The tensions are due to the unequal turgescence of the cellules, the surfaces of which either absorb the water which surrounds them or else abandon it, by virtue of a special property of their substance under the influence of physical forces, such as light, heat, and without doubt electricity. The most recent researches, for example, show that the drooping and the erection of the leaves of the sensitive plant result from a displacement of the water which swells alternately the anperior and inferior veesels of the base of the petioles.

## The Samnel Owen Centenary.

The hundredth anniversary of the birthday of Samuel 0 ven, May 13 last, was made the occasion of a public celebration in Stockbolm. To Owen is due the cre dit of firet instructing the Swedes in the use of their na:ive iron, and he is now termed the father of Swedish steam navigation.
Leaving England with but one hundred pounds sterling, Owen established a manufactory at Kungsholmen and devoted himself to teaching his workmen not only to improve their labor but their lives. Hearing of Fulton's successer with steam navigation in America, he begas researches into the samesubject, which,it is said, led him in 1815 to the discsvery of the screw propeller. He did not, bowever, prosecate his experimente in that direction, having neither time n or money, but continued labor in his factory, from which, no to 1843, when the works wore closed, thirty steamboats, two of which were of iron, were produced. He died on Fcb ru ary 15, 1854.
Profersor Edlund, of the Stock bolm Academy of Scierces, read an account of his life and services and pronounced a read an account of his life and services and pronounced a buet of 0 wen, erected by the ironmasters of Sweden, was unveiled.

## The Fort St. Philip Canal.

A bill has lately passed the Honse of Representatives which provides for a canal two hundred feet deep at the bottom, and twenty.five feet deep, to form a permanent highway from the Miseissippi river to the Gulf of Mexico. The work is to be constructed by the United States, to be free to all nations, to be completed within three years, and to cost not more than eight millions of dollars.
For many years past, all the efforts which have been made to keep open the channels through whinh the great river emptice into the Gulf have been attended with failura. As far back as 1837, extensive dredging was attempted but abandoned as unavailing, and in 1852 jetties were put down at the mouth of Southweet Paes, and another trial of deepening made, the results of which work, however, completely disappeared within the four years subsequent. Latterly disappeared within the four years subsequent.
steam dredging boats have been employed, ren. steam dredging boats have been employed, ren dering the river mouthe practicable at times for large vessels, but not effecting the opening of the prmanent channels for which the large csmmerce of New Orleans is now suffering. The present proposed canal, whish is to exteud a distance of six acd a half miles, from the left bank of the Missies'ppi below Fort St. Philip to a point four miles mouth of Breton Island, was projocted by Benjamin Buiseon some forty years ago. The plan was favorably regerded by Congress and several surreye were made of the route, up to the be ginning of the war, which put a stop to further proce adings. At the prosent time, the urgent neceesity for the work has
been brought to the notice of Congress, and it eeems proba be that it will before long be begun. The canal will form an outlet for the great region drained by the Missiesippi covering some 750,000 square miles and producing yearly a billion of bushels of cereals; and its construction will tend

Dover, N. H. The patent is offered for sale on reasonab? erms.

The King or slam's Dinner Service.
A superb farvice of silver plate, of the total value of $\$ 50,000$, and we'ghing $15, \mathrm{C} 0$ ouncer, bas just been manufactured by the eminent firm of Messrs. Elkington \& Co., Birmingham, England, and which exemplifies, in a bigh degrep, the gre, perfecion intaste, depign, and workmanehip to which the art of the silversmith is carried. It is a state dinner service, made to order for the King of Siam, and if, in every respect, well fitted to grace a royal table. It is, of couree, solid silver throughnut, and consists of a large number of piecer, being intender to dive about sizty persola in state. Conspicuous among the others is the principal centerpiece, a : plendid and mas sive piece of workmanehip. It is nearly four feet high, aud the design is that of a three headed elephant-a symbol of the Sirmesereli-gion-standing upon a plattau, and bearing on its back a castle, above which is a double rase with a to wer-sbaped stem. The trappinge of the elephant are of delicate gold work, and gold tas sels depend from the ears. Though the idea of gracefulnese, in conjunction with a three beaded monster, might seem rather dificult 10 conceiv the heade are so arranged as to detract in no de gree from the appearance of the figure. Stand ing in front, just under the beade, are two keep ers in martial attire, each with a long staff, from the top of which projects the national flag of Siam. This piece, which weighs 700 ounces, bears in three places the coat of arms of the King, in high relief and richly molded and chased. There are fourteen other centerpiece of smaller size, bat all of the same defign as the principal one. Six four light candelabra, of palm tree design, with a three headed elepLant stand ing under each, will belp to illumine the roya banquet wheneverthe serviceis used; and among the other pieces which compose the set are siz wine coolers, six large hot water dishes and cov ers, six rice dishes six oral entrée dishes, twelv bread bate eight auce tureene iz cruet bread baskete, eight frames, four large oval trays 28 inches long, an four salvers of smaller size, and about 150 dozen of spoons and forks
The derign is Oriental, and an elephant with one head forms the handle of each of the dish, tureen, and other covers. Every piece has also
greatly to the speedy development of the commerce of New Orleans and the adjoining country.

BONSER'S PATENT STEAN TRAP.
Absence of floats, disks, and levers, thus avoiding lost motion, a positive operation, simplicity, and durability, are the advantages claimed for the improved steam trap represented in vertical section, horizontal section, and in perspective, in the annexed engravings.

At the top of the instrument is a
 triangular head, A, and a similar tri angular plate, $B$, is screwed to the cylinder, C , by the nut, c. These plates are held together by mans of three rods, D, which are provided with ecrew nuts. Within the cylin der, C. is a tube, E, to which is attached a second tube, F, screwed in the triangular head. These tubes are of copper or other suitable metal. H is a tubular ppindle, held in cylin der,C, by the thimble nut, $G$, and its uoper end with the lower extremity of tube, E ,both being flat equare surfaces, form a joint, J, surrounded by the chamber, I, which cbamberis in communication with the outlet pipe, K .
The water of condensation enters tubes, $E$ and $F$, and is discharged between the ends of tube and spindle and thence out of the pipe, K , Steam then enters and takes the place of the water, when the tubes, E and $F$, will expand downward in length from the head piece, $A$, sufficiently to close the aperture in joint. J. Wben water again accumulates and becomes cold, the tubes (or one of thfm) contract and a diseharge d so on indefinitely
The thimble nut,G, allows the tubular spindle, $H$, to be ad
 ved upon it the King's coat of arms and his name in monogram.-Ironmonger.

## Hydrophobia

The Board of Health of this city, referring to an ordnance equiring dogs to be muzzled dutiog the ho: IIonthe, state that hydrophobia is imparted only by inoculation and that a rabid animal may give the disease tbrough a metallic muz zle as easily as if the obstruction did not exist. Hydropho bia occurs in the coldest as well as in the hottest weather ard with prrhaps greatest frequency doring the spring months. Male dogs are more apt to be affected than month. Ma cogition emales, and the condition of the animal, whetber household pet or vagrant,has no infuence on the taking of he maludy. Owing to a portion of the deadly saliva being retained by he clothes of the person bitten, it is found that only five to twenty per cent of those thus injured become inoculated An eminent veterniary surgeon, of this city, gives the fol lowing symptoms by which the approach of rabies in the $\mathrm{d} g \mathrm{~g}$ may be recognized. When the period of inoculation i passed (three to seven wreke), the animal becomes restless and watchful. It shuns the light and its bark changes to a kind of a howl. The akin ehrinks and tightens, the head is depressed, and mucus appears at the mouth and nostrils. Nervous eymptoms are very prowinent, and the wholeaspec of the animal denotes an unuaual condition. Dogs or cat thus suffering should be immediately destroyed.
In the wholesale crusade againat the dogs which has just begun in this city, carbonic acid gas is for the fret time used as a means of destruction. The old plan was to place the unclaimed animals in a huge vat and pump in wate until they were drowned. The presen! idea is a large cham ber, into which forty curs at once are placed, and there kep until a plentiful supply of the deadly gas ensures thei death.

Evaporation instead of Ice.
Ice threatens to be an expensive luxury this aummer, and many persons will doubtless be obliged to dippense with its use. In the country, where water may be drawn cold from the well or the apring, and a clean cool cellar or dairy pre serves the food fresb, it is not en much miesed, but even there water and butter cannot remain thany minutes, in the temperature of the eating room, without losing their agreeable qualit'es. Several thicknerses of wet clothe, wrapped about the pitch-
justed with great nicety, so that the joint, J, will close when the tube contains steam and open when it contains water or It the tomperature falls.
be seen that the instrument, when properly ad ion will be the same if steam enters only tube, $F$
For further particalars eddresa the inventer, Mr. B. Boase
er, will, by evaporation, keep the water tolerable. A common flower pot, inverted over a plate of butter, and kept covered in the same way, with wet cloths, will keep butter in that state of solidity which is essential to its at tractiveness.

If proper provision is made for expanion, portable engines an be mede quite as durable as stationary engiaes.

