Fricd Salsify.-The root cut crosswise in halves or siorter, is boiled until quite tender; remove from the water and allow to drain. Dip each piece in batter and fry quickly in plenty of hot lirid, to an even light brown.
Salsify Fritters.- Boil tender and mash fine. Mix with heaten eggs and flour, thin enough to drop from a spoon and fry as other fritters. Some prefer to mix hard enough to make into
balls, and fry with -Agricultry with very little fat, browning one side at a time. -Agriculturist for February 1.

## HOW BEST TO REMOVE WARTS ?

This question was discussed at the last meeting of the Conn. Board of Agriculture, one gentleman said a large wart on the udder of his heifer prevented her being nilked. He was recommended to apply grease or oil, at frequent intervals. Boiled lin-
seed oil has been thus used with pood results. In one case menseed oil has been thus used with good results. In one case menof a horse hy bathing them in a weak solution of potash. When Warts are small at the base, they may be removed by a string frequently tightened-"tied off" as it is sometimes called. Warts are more frequent and abundant on young than old animals. They often disappear very quiekly and withont any appli-
cation. cation. The methods for curing human warts would make a
very curious list Very curious list, exhibiting many strange and fanciful whims.-
America American Agriculturist.

## Rotes and Clippings.

The practice of starting the fires of locomotives, with gas instead of wood, is of starting the fires of locomotives, with gas in-
tent in tent in Germany, e. g., on the Royal Eastern Railway, at Berlin,
it proves ecconomical. The apparatus of Herr Siegert is there used. It consists of a The apparizatus of Herr Siegert is there with. It consists of a horizontal tube, and several ve tical tubes
with burners. Each vertical tube has a nozze in which the
gas cas mixes with air drawn in latterally, before issuing at the copper burners. The, lighting of the anthracite coal on the
grate is grate is done in 10 to 20 minutes, according as the gas pressure
varies between varies between 20 and 15 m . The method is as follows: In a gap between the bars is inserted from below an iron plate the leugth of the system of burners, and so that it projects 100 mm .
above above the grate surface. Then three or four shovel-fulls of dry coal-pieces about the size of one's fist are placed about the plate, and the rest of the grate-surface is "overed 100 to 150 mm . high
with coal With coal. Then the plate is drawn out, and the system of ciently. In the course of 300 litres of gas ligits the coal suff. loconotive the course of 30 to 45 uinutes, according as the
pushod pushed apart, so that the fire may extend as quickly as possible over the whole grate. The gas is conveyed to the burner ap-
parat paratus through a grate. of caoutchouc from a small gas-holder,
and the and the pressure can be easily varicd at will. The apparatus is ${ }^{\text {suppplied}}{ }_{3} 5 \mathrm{~s}$.) by Pintsch, of Berlin, at the price of 65 narks (say tus consists in dprovement introduced by Siegert in his apparaproducingst in doing away with the nozzle of each burner, and
pozzle in the mixture of gas and air by means of $a$ single nozzle in the comenecting pipe.
French mode of propelling vessels has been described to the apparat Academy by M. Grandt, who says he has constructed Thparatus for the purpose. The principal agent is electricity. dynamic ary stean-engine is set to drive one or more electrocontain apparatus. The current is sent through a voltameter from deco acidulated water. The oxygen and hydrogen arising according to position are led, in a tube, fore or aft, in the boat, escape by to the direction in which it is desired to go. They are two insulated are in the hull, a little above which aperture are two insulated platinum points, giving passage to an induc-
tion spark. The
A NEw The explosion thus caused propels the boat.
trial rew hydraulic ship has been built in Germany, and on her years recently accomplished excellent results. More than 200 years ago a method of propelling vessels by trpelling water from
the stern received
he high speed received some recogniition; but all attempts to obtain tion speed have failed. A new method is based on the assump-
and not the propelling force depends on the contact of surfaces, and not on the sectiong force depends on the contact of the flowing mass, so a number
of tubes mith lr is with narrow outlets are used instead of one large tube. boiling a water curious fact, lately noted by M. Doutigny, that if peratg-water be projected on an incandescent surtace, its tem-
to falls at once to $97^{\circ} \mathrm{C}$. He is of opinion that this is due to work expended in production of the spheroidal state.

## Sxientific Etems.

Business on rhe Suez Canal.-It is reported that the traffic returns of the Suez Canal Company for October show the receipts to have been $\$ 628,000$, against $\$ 439,919$ in the same month of 1879 . In the first ten months of the year the increase is from $\$ 4,865,058$ to $\$ 6,633,660$. The tonnage at the end of September amounted to $3,288,851$ tons, and as the traffic is most active during the last three months of the year, it is believed that the tonnage by the end of December will easily exceed $4,000,000$ tons. M. De Lesseps, in his argument for the canal in 1855, wrote: "It might be argued without exaggeration that almost the whole of the freight to the East will take the route of the canal." The estimates, however, were not hased upon that presumption, and De Lesseps presumed that but half the shipping would pass through the isthmus. He therefore estimated the amount of tolls to be parned on $3,000,000$ tons.

Hoosac 'Tunnel Lighted by Electricity.--Experiments with electric light in the Hoosac tunnel have proved that a light can be thrown strong enough to do track work within the tunnel, free from smoke, and the men working at from 500 to $1,00_{0}$ feet from the light. With the tunnel choked with locomotive engine smoke the light penetrated the smoke, as nearly as could be judged, 10 times as far as that of the ordinary oil headlight. The tunnel is to be lighted within a few days by 12 electric lights, using a turbine wheel at the east end of the shop for motive power. The wire to be used for connecting the lights with a dynamo machine is a new process or patent, and is, we understand, the invention of Prof. George Mowbray, North Adams, a successful man with nitro-glycerine.
The English Channfl Tunnel.-The French Government has extended for three years the concession for the preliminary work on the proposed Channel tunnel to connect England and France. The original concession was made in 1875, for five years. So far all the geological evidence, and especially that derived from the experimental borings, has proved to be highly satisfactory. It is questionable, however, whether in the event of a favorable termination of the preliminary work, it would actually be undertaken exclusively by private enterprise, by reason of its enormous costliness. In such an event, doubtless the two governments interested in its execution will be asked for, and will grant the enterprise, substantial assistance.
A Lecture Experiment.-The decomposition of steam by a red-hot ion is often shown as a lecture experiment. Dr. Henry Leffman, of Philadelphia recommends the substitution of magnesium for iron. About a yard of the ordinary magnesium ribbon is so placed in a hard glass tube that the metal touches the glass in a number of points. One end of the tube is drawn out into a pretty wide jet, and the other is attached to a flask of water. Steam is produced, and after the air is expelled the metal. is heated at the extreme end until it takes fre. The escaping hydrogen may be lighted at the jet. The experiment, besides being a striking one, is interesting as showing a body acting as a supporter of combustion, and becoming itself converted into a combustion.

A Curious Experiment in Magnetism.-M. Obalski describes a pretty magnetic curiosity to the Academie des Sciences. Two magnetic needles are hung vertically by a fine thread, their unlike poles being opposite one another. Below them is a vessel containing water, its surface not quits touching the needles. They are hung so far apart as not to move toward one another. The level of water is now quietly raised by letting a further quantity flow in from below. As soon as the water covers the lower ends of the needles they begin to approach one another, and when they are immersed they rush together.

Cement for Marble.-Sift plaster of Paris through muslin, and mix with shellac dissolved in alcohol or naphtba. As soon as mixed apply quickly, and squeeze out as much of the com. position as possible, wiping off that which squeezes out before it sets. The cement will hold better if the parts to be joined be roughened by a pointed tool before cementing, which can be done without destroying the edge of the fractured part.-Monthly Magazine.

Hardening Glue.-The only thing that will render glue perfectly insoluble is bichromate of potash. If you add a little of this in solution to the glue and after applying the glue to the article expose it to the sunlight, it wili become insoluble, even in hot water. Better expose for a good while, say an hour or an, to make sure that all the glue has become insoluble.

