Ground Pumplins and Good Breoms．
The above caption may seem rather quain to some，but nevertheless implies the whole meaning of this little article bet
ther title which suggested itself．
Ground dried pumplins is an article of mer chandise，prepared by the United Society of Shakers，at Harvard，Mass．，and is the best substitute for the pumpkin＂yellow and ripe from the field，＂that we know of．Good pump－ kin pies may be madeat all seasons of the year，by obtaining the pumpkin ingredient as bove，and following the annexed direction fo use：－
To one pound of pumpkin，add 12 quarts o milk and one egg to each pie．Stir the pump－ kin with the milk，set it in boiling water from 20 to 30 minutes，then add more eggs，sweet ning，spice，\＆c．，to suit the taste．
Pies thus made will have the delicate appear ance of squash with the flavor of the pumpkin Crackers and water may be used as a substi tute for milk，when milk cannot be had．
We have been favored by the Harvard Soci ty of Shakers，through one of their members， Mr．E．Myrick，with a sample of brooms fo which they will please accept the Editor＇ thanks．Any one wishing good New England pumpkin pies at any season of the year，and a good broom to sweep the kitchen which will not disconnect from the handle，had better send orders to the care of Mr．E．Myrick，ad－ dressed to South Groton，Mass．，and we will guarantee they will not be disappointed in either article when received．

Paine＇s Light in Britain－．－A Mistalse．
In a communication to our worthy cotem porary，the London Mechanics＇Magazine，o Feb．1st．，Mr．S．L．Freemont has made a mistake in attributing to the Editor of the Scientific American any doubt about water be ing less than a compound body．The edito has never expressed himself in such a man ner as to convey any other idea than he be lieved water was a protoxyde of hydrogen． Mr．Freemont entertains the same views ex actly as we do．
Paine＇s Light is creating quite a sensation in England－a patent has been taken out there for it，and one applied for recently at Wash ington．Our cotemporary，the London Patent Jour．of Feb．8th，has a correspondent signing himself＂C，＂who makes some very excellent remarks on the subject．He says，＂a bright white light is very deceptive as to its illumi－ nating power when judged of merely by its appearance．Hediscovered this by examining the electric light displayed in London．He also states that from all evidence yetadduced， （and the letter of Dr ．Colton，and the article of Mr．Wright，have been re－printed in Eng－ land），nothing has appeared to overthrow the report of the Scientific Committee who inves tigated the subject．

## Queenston Suspension Bridge

This second structure which spans Niagar River has recently been opened to the public． The towers are built on each side，and it is 1,043 feet from tower to tower．There are te be ten cables in all，each cable made of 250 wires；each wire warranted to bear 1,500 pounds．The cables are firmly anchored in the rock，and pass over two massy stone towers some 14 feet high．The cables，when exten． ded，have the shape of a rainbow turned up－ side down．Instead of the planking and path－ way being over the cables，it is under them， and the work to be sustained by iron rods suspended from the cables．The planking to be 20 feet wide，intended at present for teams． It is said to be the greatest suspension bridge in the world．
［The Wheeling Bridge is 1,010 feet from centre to centre of the towers．The strands of wire used are No．10，oapable of sustaining the amount of pounds atated above．Mr．Ellett used 550 strands in each cable．The Niagara Bridge unes more than a half less（6－11）aum－ ber of atrands．The ten cables will，there－ fore，support onily 1,625 tons，less the weight of the structure．The Wheeling Bridge is ca－ pable of supporting 4,950 tons，less the weight of the structure．We shppose there is a mis－
take somewhere，as the Queenston Bridge should be built stronger．

Choice Receipt for Dyeing．
Scarlet．－Dip the cloth in a solution of al kaline or metallic salt．then in a cochineal dye and let it remain sometime，and it will come out permanently colored．Another method Half a pound of madder，half an ounce of cream tartar，one ounce of marine acid，to pound of cloth．Put it altogether and bring the dye to a scalding heat．Put in your ma erials and they will be colored in ten minutes． The dye must be scalding hot．Rinse you goods in cold water as soon as they come from the dye．
［We copy the above from an exchange，in order to point out the errors，for assuredly they are very great．It is stated above that the cloth should＂be dipped into a solution of al kaline or metallic salts．＂This is wrong；if the cloth were．dipped into a solution of com mon salt，it would not answer．Metallic and alkaline salts are entirely different．To dye a good scarlet，let the oloth be well cleansed from all grease and dirt，and put into a tin o lean copper vessel as much clean water a will cover the cloth well．Put in one ounce o ground cochineal for every pound of cloth，and boil it five minutes，then add a wine glass full of the chloride of tin，one ounce of cream of tartar for every ounce of cochineal，stir all up， and enter the cloth all as free and loose as pos－ ible；boil for one hour，and a beautiful scar－ let is the result．After this，rinse the cloth in clean cold water and dry in a warm place．

The Atlantic and Arctic
At a meeting of the Architectural and Archæological Socisty on Wednesday，the Chairman，Mr．Frank Howard，asked whether the breaking down of the Atlantic had any－ thing to do with the peculiarly polished and steel－like appearance of the machinery obser－ ved by Mr．Arthur Holme？Mr．Horner obser ved，that Mr．Holmes＇remarks applied to the Arctic．There was a great difference between the engines of those boats．The Arctic had the mosthighly finished engines that had come from the other side of the Atlantic．－［Liverpool Times．

The Baltic．
This noble steamship arrived at her wharf n Thursday last week，taking all our citizen by surprise，by her quick passage of only twelve days from Liverpool．A writer in the Tribune， signed Philopanti，made the Baltic quite inferi－ or to the Asia．Another signing himself Prac－ tice made out Philopanti to be quite ignorant of the facts in the oase．As we have already stated，this shows there is an amount of igno－ rance all round about on the subject．

## Gold Solutions

There are three solvents of gold，aqua－regia， or nitro－hydro－chloric acid，aqueous chlorine， and a mixture of the chromic and hydrochloric acids；this last mixture，as well as chlorine， is incunvenient and uncertain，but the nitro－ mariatic acid dissolves it very readily，forming with water a solution of almost the only salt of gold，though the metal unites with several of the elements，－oxygen，bromaine，iodine， \＆c．

Ethereal Solution of Gold．
To the above solution add sulphuric ether， this will separate the gold from the acid，and the ether holding the gold in solution will float upon the surface of the acid，from which it may be poured off，and kept for use in a dark place or an opaque bottle，it being decomposed by light．

Macadam In Paris．
The mud produced on the macadamised part of the Boulevards is（says the Moniteur du Soir）to be turned to account．A person， named Taboureau，has obtained permission to carry it away for the purpose，after having had it carefully washed and sifted，of having the silicious particles made into bricks to clean knives with．A hectolitre of the mud produ－ ces ten bricks，which are sold at 20c．each， and so give $2 f$ ．for esch hectolitre．It is said that a good workman can eara 20f．a－day by his new kind of industry．
The Hudson River is now open to Albany， and the steambeats are soon to go up． tenta is demanded，and a reduction of the fees

