## 7flicrellunemy．

Correspondenoe of the Scientifio American．

Washington City，May 8， 1850. It is one of the cheering signs of the times that the South is at lastwaking up to a know－ ledge of its true interest ；and the people are beginning to be conscious that the only way to bring about an equilibrium between the two great sections of the Union，is for the South to embark as extensively as possible in manu－ facturing enterprises and pursuits．The num－ ber of cotton manufactories is fast increasing， and in North Carolina and Georgia there are more than double the number of those in Vir－ ginia．Owing，however，to the want of prac－ tice and experience，they have at present to depend on superintendants from the North，to whom they give liberal salaries．
From an old Virginia document，it appears that the silk culture was first started in that State in 1663 ；and it was a penal offence if trees were not planted at the rate of ten for every hundred acres．In 1760 the London So－ ciety for the Encouragement of Arts，gave pre－ miums for silk raised in Georgia，Pennsylva－ nia and Connecticut．In Rhode Island silk was raised as early as 1758 ．It is said that the weaving of silk in America was first tried in 1833 at Marshfield，Conn．
The water is to be let into the Chesapeake and Ohio Canal in June，and in July it will be in navigable order for boats propelled by steam．Arrangements have been made for coal deposits at Alexandria，where shipments in propellers will be made North and East．
Professor Rodgers has commenced his course of geological lectures at the Smithsonian In－ stitute．Last evening he adduced many in－ teresting proofs that the interior of the earth consists of lava in a state of fusion．He said at the depth of two miles below the surface water will boil，and that it is calculated that at a depth of twelve miles all is liquid fire．In confirmation of this theory，he observed that from numerous experiments the heat inc reases in propertion：to the ideper．
The second part of Mr．Ewbank＇s Patent
office Report is highly interesting，and if the Printers to Congress shall live to print it，eve－ ry farmer and mechanic in the country will be desirous of having a copy．According to the present speed in such matters，we may reason－ ably expect the parties to complete by the 4th
of March next．
It is understood that the Hon．Zadock Pratt， of your State，is exerting himself with his usual zeal for the interests of mechanics，to have an American＂World＇s Convention，＂to be held in the City of New York in 1852．－ With such at the work，we may rest assured the thing will be done．
Several of Jennings＇patent rifles are exhi－ biting in the Congressional Library．From experiments made by Col．Talcot，they have been pronounced very effective．It is much more destructive than the Prussian rifle or Colt＇s revolver，and much more easily handled and loaded．It will kill at 800 yards，and may kill 20 men per minute．Will not the perfec－ tion of these deadly instruments be to cause the nations to dread war？
At Foy＇s Hotel，in this city，is exhibiting a patent knitting machine，which in a month will fürnish stockings for a regiment．
The bill recently introduced by Mr．Stur－ geon，in the Senate，for the establishment of an Agricultural Bureau in the Department of the Interior，has the following provisions ：－A Commissioner is to be at the head of it，with
the same salary as the Commissioner of Pa－ tents ；his duty is to collect agricultural sta tistics，and to put in operation a chemical la－ boratory，at a cost not exceeding two thousand dollars，for the analyzation of minerals and mineral waters，and such as relate to the com－ position of soils；the manufacture of sugar and such other manufactures as may be con－ nected with agriculture，An annual report is to be made to Congress containing an account of the experiments．
The ship builders at Baltimore are now buidding a steamship for the California trade
with the propeller attached．The efficiency o． with the $p$
this instrument appears to be acceded to by all The objection to the Loper propeller，by the advocates of the side wheel，was，that it ope－ rated obliquely upon the water．But they did not reflect that the side wheel，as applied to ocean steamers where a greater dip is requisite than with light and unvarying draughts，it is evident that by the rolling incident to them in a heavy sea，the paddle is as oblique in its ope－ rations，and is attended with greater losses by friction and pressure than a screw propeller Not only our own government，but the British and French，are realizing the utility of this mode of propulsion by the introduction of pro peller ships into their navies．

Cotton Factories．
The last number of the Mining Journal con－ tains an able article on the＂building of cot ton factories at Pattarilie．＂We know of few places where fuel could be so well supplied at a moderate price as at Pottsville，and goods could be manufactured there by steam power， cheaper than in some places with water power， but at the present moment，we do not think it would be prudent for any of the North or Mid de States to erect new cotton factories．The southern States alone have any hope of success， and it is best for them also to have a little pru dence in counting the cost．Our northern factor ies are in a very sorry condition at present，－ they have too many goods on hand．They must commence to make finer goods than they have heretofore done and let the South make the coarse goods，which can be made there heaper than at the North．

## Ship＇s Blacksmith．

A ship＇s blacksmith，says Colton，has no sureh word as can＇t in his vocabulary．He takes his order，and tries to shape his iron accord－
ingly，though he may know it to be utterly impractible．We had on board the Natchez an old time piece which had broken its main spring．The first lieutenant，for fun，told the blacksmith to take it to the anvil and put a new mainspring into it．Hearing the puff of
the bellows and the clink of the hammer，I the bellows and the clink of the hammer，I
went forward where I found the old watch ta－ ken to pieces，and the worthy representative of Vulcan beating his full force a piece of iron． ＂What are you doing with this time piece？＂ inquired．＂Making a kinked－up sort of a thing，sir，to make it go，＂was the reply．

Mammoth Steamer on the Missisippi．
The St．Louis Revielle announces the ap－ pearance at the Levee of a new steamer，－
＂The St．Louis，＂just completed，and the larg－ est on the Mississippi or its tributaries．Her length is 370 feet，beam 39 feet，depth of hold 9 feet．The cylinder of her engines are 31 inches in diameter，with 10 feet stroke．She has two smaller engines to do the work of the boat，hoisting out the freight，\＆c．Her wheels are 40 feet in diameter，and work 13 feet of bucket．She has 5 boilers，each 44 inches in diameter，and 32 feet in length．Her length of cabin is 260 feet，with 50 state rooms in the main cabin．Those attached to the la－ dies＇cabin are fitted for the accommodation of
small families，and can contain from 3 to 4 persons．Bathing rooms are connected with it．The cost of the St．Louis is set down at $\$ 80,000$ ．

## woman．

A writer in a late Review，speaking of the Roman women，and their influence during the existence of the kingdom，says：－＂From the Sabines to Theodora＇s conquest of Jus－
tinian，women seem to have been at the bot－ tinian，women seem to have been at the bot－
tom of almost all the memorable events of Ro－ man history．Lucretia，Virginia，Veturia，Fa－ bia，the wife of Licinius，who became at her instigation the First Plebeian Consul，are il－ ustrious examples of this：and whatever may be the changes of manner of opinions，as Hume has well remarked，all nations，with one accord，
point，for the ideal of virtuous matron，to the point，for the ideal of virtuous matron，to the chi．＂Wh scipio，and the mother of Grac－ woman？

## Gas in Wheeling

The City Cuuncils of Wheeling have sub－ scribed $\$ 15,000$ to the stock of the Wheeling scribed $\$ 15,000$
Gas Company．

Color of the Ocean
The waters of the globe exhibits various hues，which depend upon a variety of circum－ stances．The ocean absorbs all the prismatic colors except that of ultramarine，which is re flected in every direction．This is its true col－ or in general when seen apart from atmospheric influence，modified by depth；but every gleam of sunshine，passing clouds，winds，shoals，and sandbanks，affect its tints．Partcular parts of the ocean show peculiar colors．The sea is white in the Gulph of Guinea，and black amid the Maldive Islands．Various purple，red and rose－colored waters occur in the higher parts of the Mediterranean，in the vermillion sea off California，the Red Sea，and in tracts along the coasts of Chili，Brazil，and Australia．－ Green water appears in the connection with the deepest blue in the Arctic ocean．The ap－ pearances are permanent，and so distinct，that ships have been partly in blue and partly in green at the same time．These tints are oc－ casioned by differently colored animalculre， which swarm in countless myriads in the tracts in question．The same species of animalcu－ which color the Red Sea，have been found in other similary tinted districts of the ocean． The green of the Arctic seas is produced also by minute animals，which visit in spring the coast of Holland，and have been encountered in immense shoals migrating in the Atlantic． In the Antartic regions，Sir James Ross re－ marked repeatedly the change of color of the sea，from light oceanic blue to a dirty brown， caused by ferruginous animalculx．The phos－ phorescence of the ocean，a magnificient and imposing spectacle，when the waves scinti－ late with bright green sparks，or exhibit a long line of fire flashing in a thrusand direc－ tions，is mainly caused by minute organic be－ ings，which are phosphorescent while alive；a property retained by the gelatinous particles with which certain tracts of the deep are thickly charged－their dead and dismembered relics．At the same time，a disturbed electri－ cal condition of the atmosphere may be most favorable to the phenomenon．
of whit the beardu．
The Emperor of Russia has taken a sudden antipathy to the patriarchal superfluities now so much in vogue，and，we are told，has issued an ukase commanding his nobility to shave off their beards immediately．There will be a revolution in Russia，in consequence－but it
will be confined to the world of fashion，and mustaches will fall，instead of thrones．
＊［We want the emperor here for a couple of months．

## New England Industry．

The Bangor Whig states that in the valley of the Blackstone river from Pawtucket to Milbury，a distance of thirty miles，there are 115 cotton and wollen factories，besides six large machine shops，two large axe factories， and three extensive scythe works，giving a to－ tal of 126 manufactories．Many of these are very extensive，the largest wollen cotton mill in the United States being among the num－ ber．

A Telegraph to Callfornia．
Mr O＇Reilly announces in the St．Louis Re－ publican，a project of telegraph line from that
city to San Francisco．He proposes that the city to San Francisco．He proposes that the Government shall establish a line of stockades shall serve as telegraph stations，and at the same time afford protection toemigrants to Ca － lifornia，and facilitate the transmission of the mails．

## Patent Case．

We have seen a notice in some of the Boston papers about Mr．Goodyear having suffered a nonsuit in an action which he brought forward in the U．S．Circuit Court against the Boston and Maine Railroad Co．，for using India Rub ber Car Springs，supplied by Fuller \＆Co．，and made by Mr．H．H．Day，of New York．
The directors of the Connecticut River Rail－ road have voted to create new stock to the amount of $\$ 300,000$ or $\$ 400,000$ ，as they are empowered to do by acts of the Legislature， and to give this new stock a preference for ten years，to August，1860，guarantying to its holders 4 per cent．semi－annually，from the earnings of the road．

Works on Sclence and Ari．
Marine and Naval Architecture．By $^{\text {a }}$ John W．Griffiths，Marine and Naval Arehi－ tect．－Number 5 of this incomparable work contains a number of plates and the lecter press is executed in the same excellent style as the previous numbers．The matter relates principally to＂Water Lines，＂and their effect in modelling，and Mr．Griffiths analyses what is termed the＂Wave Line Principle，＂a dis－ covery claimed by Scott Russell．We hope that every ship carpenter will make himself thoroughly acquainted with this work．
Dictonary of Mechanics，Engine Work and Engineering．－Part 9 of this work，pub－ lished by Messrs．Appleton \＆Co．，contains engravings of Dressing Mill Stones，Metal Dril－ ling Machines，Dry Dock at Brooklyn，Dyno－ meters，and some good information on Electri－ city and the Electric Light，（not Paine＇s．）
We are indebted to Messrs．Birkinbine，Mar－ tin \＆Trotter for a useful illustrated pamphlet on the method of Warming and Ventilating part of Blockley Almshouse，Philadelphia．
Messrs．Appleton \＆Co．have just issued a very excellent Dictionary of Scientific Terms， by Hoblyn．This work has been very much needed in the community，and will no doubt， as it should，meet a large sale．

## The City of Glasgow

This is the name of a new steam ship which arrived at this port on last Friday，from the City of Glasgow，Scotland，in 16 days 21 hours． This is a remarkable passage，as she had about one day＇s more sail than from Livepool and is propelled by a screw．She is an iron vessel of 1600 tonsburden，of a mostbeautiful form，embra－ cing the hollow water line principle，so well un－ derstood on our North River boats．Her en gines are 350 horse power built by those em－ inent engineers，Todd \＆McGregor，of Glas－ gow．This vessel shows the ability of the Clyde Engineers in constructing marine steam ships．The City of Glasgow（not the ship）is the mother of Marine Navigation，all the Cu－ nard steamers are built there，and the fame of her engineers is world wide．It was there where Watt planned his first steam engine，and Henry Bell built his first steamboat．

Chotera．
The Indiana State Sentinal states as a fact hat the cholera this season has attacked the cabin passengers on the rivers，and that almost without exception the leck passengers have been exempt．If there is any rule well estab． lished in regard to this mysterions disease，it is the fact of its re－visiting the scenes of its former ravages and selecting its victims from among the better classes．
Steam between Virginia and Europe． The people of Norfolk are diccussing the feasibility，as in their minds there is no doubt of the necessity，of having a line of Atlantic steamers between that port and Liverpool．－ An intelligent writer in the Richmond Whig states it is far the interest of the whole South o encourage，and advance the capital for such an enterprise．

## Malarta．

A correspondent of the American Farmer， for May，has furnished the editor with a pa－ per on the subject，in which he details various facts，and gives the experience of the most eminent writer on Malaria，to prove that the effects of these noxious vapors may be pre－ vented，by the planting of trees of thick foli－ age around the dwelling，in the direction from whence they proceed．Mr．Jas．Gregorie，a plan－ ter of upwards of seventy years，is the autho of this paper．
［There can be no doubt of the truth of the above，in the main points．It is well known that the Dutch to make cinnamon high in price，cut down a great number of the trees in Ceylon，which resulted in bringing about a great deal of malaria sickness，a sickness which never left the Island in the places where the huge trees had been cut down until new de trees had grown up in there places．

The Suffolk Cotton Mills at Lowell，Mass．， re about to reduce operations to about ons half of their 500 operatives．Other factories
are about to do the same thing．

