## 可䟺

```
NEW YORK, JULY 5, 1851.
```


## The Republican and Royal Mail Lines of

 Allantic Steamships．By reference to our record of the passeges made from Liverpool to New York，during the the last quarter，by the Collins and Cunard Lines of ateamships，we are enabled to form a very correct estimate of the relative speed of both lines，and of different vessels in them， by taking the four steamers whtch made two voyages each in the quarter，viz．，the Pacific and Arctic，the Asia and Africa．The two pas－ sages of the Pacific occupied 19 days， 232 hours，average 9 days 23 hours．The two passages of the Asia occupied 21 days 82 hours－average 10 days， $16 \frac{4}{4}$ hours．The two passages of the Artic occuped 21 days 23 hours－average 10 days， $23 \frac{1}{2}$ hours．The two passages of the Africa occupied 22 days， 12 hours，－average 11 days 6 hours．These figures are not mere verbose opinions，they are facts，and as Burns says＂plain facts are sturdy things which cannot be refuted．＂ It will be observed that the Pacific and Asia have made the best passages，and by comparing the performances of these two no－ ble vessels，we find the Asia has been beaten by the Pacific 1 day and 19 hours in the two passages．By comparing the voyages of the Artic and Africa，we find the latter to be beaten by the former 13 hours in the two pas－ ages．The Pacific made each voyage in 21 s hours less than her opponent；the Arctic in $6 \frac{1}{2}$ hours less than hers．The fastest of the Cu － nard line beat the Arctic $14 \frac{1}{2}$ hours in the two voyages，the fastest of the Collins line beat the Africa 2 days 184 hours in the two voya－ ges．
There is one choering fact elicited by our record，we allude to the increased speed of Atlantic steamers－the shortening of the du－ ration of voyages．The average duration of the eight voyages of which we have been ma－ king comparisons，is 10 days， 17 hours， 22 minutes．Within two years a steam voy－ age across the Atlantic，has been shortened nearly three days．The increase speed has been about 20 per cent．Some time ago，we pre－ dicted that in 20 years from 1851，passages would be made across the Atlantic in seven days．We hope to live to see our reasonable anticipations accomplished．
The increase of speed in these ocean steam－ ers is not attributable to any new principle in the construction of the engines－they have all the old fashioned side levers．The increase of the size of the vessels，and improvements in their form，together with superior man－ agement，are the principal causes of the supe－ rior results．We will yet see vessels of four and five thousand tons burden navigating the ocean，and in proportion to their tonnage they will meet with less resistance than emaller ones，consequently they will make faster voy－ ages．Below a certain size it is impossible for a steamship to navigate the Atlantlc succes－ fully，while the advantages increase with the tonnage，all other things being equal．No doubt there is a line of demarcation，beyond which advantage would cease，but we have not yet reached that line，nor do we truly know how far or near we are to it，experience alone can teach us．
Five peculiar steamships for the California trade have recently been constructed．They are hybrids，having sea hulls and river boat engines－top levers．Two of them，the Pro－ metheus and North America，have made re－ markable passages．The latter was to have gone to Ireland，but for some reason did not， for which we are sorry．We should like to see such kind of vessels fairly tested on the stormy Atlantic．The engines are more sim－ ple than the side levers，and if they will stand the storms of the Atlantic as well，they are preferable．
Another kind of engine has many advo－ cates，viz．，the oscillating kind．Two oscilla－ ting engines with cylinders of 85 inches in di－ and a pair of equal sing at the Novelty Work
for the steamers belonging to Howland \＆ Aspinwall，and destined to run between San Francisco and Canton，in China．Out of these different kinds of steamships，valuable ircpro－ vements may be expected，but experience will decide．These things cannot be determined by speculation，but the desire to improve， and the determination to excel，cannot reason－ ably fail to produce superior results．

## Buginess at the Patent Oflice

It is an outrageous shame that applications for patents are suffered to linger in the dusty pigeon holes of the Patent Office 4,5 ，and 6 months before any action is had upon them． Inventors，in many instances，who are subjected to this delay，often，we have no doubt，suffer in their interests very much．We know it is eriously aggravatingto theirfeelings and many times they utter imprecations against the Commissioner and Examiners，which to say the least are unchristian－like and hence the office by such delay，if they do nothing more， increase the quantity of sinners，something that we shoulde not like to be guilty of．In mitigation，h甲wever，we．can justly assert that the Commissioner is not altogether chargeable with the fault，for hitherto the examining force of the office has been about one half that ac－ tually required by the present and prospective wants of the office．Recently，however，four assistant Examiners have been added to the corps of the office，but what are we to ex－ pect from their labors if，as the Herald says， one of them is a mere boy of 19 years of age？ What confidence can we have in the decisions and opinions of a mere youth，who necessarily cannot have gained any considerable amount of practical information especially upon the Arts and Sciences？We recently had an evi－ dence of some of this children＇s play（al－ though we are not certain it did not emanate from one whose head is generously sprinkled with some of the evidences of decay）．In a note accompanying a returned specification to this office，the Examiner，says，＂This screw nut will not work in the model where it must do，as it is made a part of the claim and there is no nut whatever．＂In the first place there is no sense in the sentence，and in the next place，if there was no nut attached to the model，it is a query to us how the Examiner could have tried to work it，as is inferred he did from the first clause of the sentence．We might instance other rich morceaux which emanate from some old growling Examiner， who finds fault with every thing not prepared strictly according his own notions．The Ex－ aminers of the Patent Office，although many of them are high minded and honorable，are yet evidently a long way behind the age－spe－ cimens of learned dullness，and it seems to be a pity that the soapsuds of prescription fail to cleanse and renovate some of the apartments in this，one of the most important bureaus in the country．The decisions of the office in some instances are marked with a peculiar imbecili－ ty，and the moment you undertake to reverse them，a spirit of rancorous hostility commen－ ces－and it seems almost impossible to touch the tender cords，or cause a solitary humane vibration．Honied words and sugar plums are gall and aloes．If．you undertake to reach them by copying the argument from the most learned men of the age，a new and antagonis－ tic theory comes forward as a rebutter．The sages and philosophers of this department have seldom，if ever，found their equals，but the credit does not seem to reach us．

We throw out these random shots for the purpose of elicicing attention to the interests of American inventors，whose money supports the office．It is unjust－yea，cruel，to keep them suspended between hope and fear for so long a time．A farther increase of the exa－ mining force is loudly demanded，unless this shameful evil can be remedied．We hope these suggestions will do good．They are true whether they do or not．

## Boston Steamships．

In a quiet but very unexpected way，it was announced a short time ago that 2 steam pro－ peller ship wes launched at Philadelphia for the Boston and Liverpool new line，and would ready to commence her trips on the 10th of
o be constructed after the propeller model of Capt．Richard F．Loper＇s latest improvement They are to be fitted up with acconanodations for 150 cabin passengers each，and some berths Boston are now passenger． in steamships，and it will be a very strange thing if they are not eminently successful．

## Paving Streets．．－－Mud and Dust of London

 and New York＂The 300，000 houses of London，＂says the London Quarterly Review，＂are interspersed by a street surface，averaging about 44 square yards per house，and therefore measuring col－ lectively about 134 million square yards，of which a large proportion is paved with gra－ nite．Upwards of two hundred thousand pairs of wheels，aided by a considerably larger number of iron．shod horses＇feet，are constant－ ly grinding this granite to powder；which powder is mixed with from 2 to 10 cartloads of horse－droppings per mile of street per diem besides an unknown quantity of the sooty deposits discharged from half a million of smoking chimneys．In wet weather these se－ veral muterials are beaten up into the thin， black，gruel－like compound，known as London mud；of which the watery and gaseous parts evaporate，during sun－shine，into the air we breathe，while the solid particles dry into a subtle dust，whirled up in clouds by the wind and the horses＇feet．These dust clouds are deposited on our rooms and furniture；on our skins，our lips，and on the air tubes of our lungs．The close stabie－like smell and flavor of the London air，the rapid soiling of our hands，our linen，and the hangings of our rooms，bear ample witness to the reality o this evil；of which every London citizen may find further and more significant indication in the dark hue of the particles deposited by the dust－laden air in its passage through the nasal respiratory channels．To state this matter plainly，and without mincing words－there is not at this moment a man in London，how－ ever scrupulously cleanly，nor a woman，how－ ever sensitively delicate，whose skin and clothes and nostrils，are not of necessity more or less loaded with a compound of powdered granite，soot，and a still more nauseous sub stance．The particles which to－day fly in olouds before the scavenger＇s broom，Ay in clouds before the parlor maid＇s brush，and next day darken the water in our toilet－basins or are wring by the laundress from our calico and cambric．＇
Of New York we cannot say anything less We can brag of as much dust and as sharp stuff here as any of the Cockneys．We have less moisture to be sure，and less mud，but leaving smoke out of the question，we can make the dust dy in clouds，if not equally black，at least as portentous，as those of Lon． don．
The great cause of dust in our city，is re－ pairs of streets．Our streets are paved with out ekill，with an intention to endure the shortest possible period，and when not a single inch of sand should be left on the top，when all should at once be swept up clean，about three inches of sand ase left on top of all re paired pavements，spoiling the goods of ou merchants，and raising clouds of dust to render every pedestrian as uncomfortable a possible．Why den＇t our street inspectors look to this，and why don＇t our merchants demand a reform？There is no need of using one sixth of the sand that is used．Every extra cart of sand laid down to repair ou streets spoils $\$ 50$ worth of goods，but there is a scheme behind the sand，as the pavers ar paid for the quantity：which they use．

## Byram＇s Amerkan Clocks．

lt is not a very uncommon thing for rich people and rich churches in our coun－ try to eend to England for their clocks－ fne clocks．They think that good clocks can－ not be made at home．This is all a mistake and a very great one．＂Far off birds have feathers fair，＂is an old saying，but if our churches knew what fine clocks are made at Sag Harbor，L．I．，N．Y．，they surely would never send abroad for them．At the Oak land Works，Sag Harbor，Messrs．Sherry \＆
the finest elocks in the worid．A clock was pist up in the Methodiat Epiacopal church， Sag Harbor，aix yeara ago，and it never va riad three minutes in a yemr．Some of Byrama＇s clocks have chronometer regulatorf and sre as good as any that can be made．Thera are many who seem willing to pay morefor a fo－ reign clock than for one made at home，forget－ ting that if they would pay the extra，the clock can be made at home as weil as ejse－ whera．What is it that makes the dif－ erence in the prics of articles but the workmanship？Nothing；then we say，pay a gufficient price for whetever iggood at home， and do not be unressonable about such things． Phillipw Fire Annihilator．
Thim apparatus，which is making not a lit－ the stir at the present moment，we perceive ${ }_{1}$ by tooking over the back volumea of our fo－ reign London papers，was made the aubject of tectures in the Royal Potytechnic Institution， London，by Dr．Ryen，in 1845．It is now eix yeara ofd．In many public triata which have been made with it in London it failed to givo satisfactory results．At the time Dr．Ryan lectured，it was ndvertised an＂A new gubject in chemistry of much interest－Phitlipa＇Pa－ tent Fire Annibilator．＂It is no argument against the value or merity of an invention thatit is＂some yeara old．＂Many very ex ellent inventions have taken $B$ long time to win their way into public favor and come in． to general use ；this was the case with Watt＇s great improvements in the steam engine；！ was the cese with the ateambort and locomo tive．This＂Fire Annihilator，＂however，is nothing more than the employment of carbo－ nic scid gas to put out the flame．It will do well if applied early，when the fre ls but small but what fire has taven place which might not at one time have been extinguished with a gal ton of water？Water is the only sure and cheap＂Fire Annihitator．＂

The Potato Rot．
A Mr．Flanders，who has dovoted much at－ tention to this disease and to its causes，in forms us that the insects which he is fully sa tisfied produce the mischief，have already made their appearance in great numbers He recommends the unmediate application of lime to all who would save their potato crop．

New Rotary Cylindrical Engine．
Mr．S．Furman，of Romulue，Seneca Co．， N．Y．，has applied for a patent for a nove feature in the steam engine．The cyliuder is hung so as to rotate by the pressure of roller attached to the piston rod acting against fixed curved way，so formed as to guide and direct the cylinder round about to rotate it One or two piston rode may be used ；if two they are attached at antipodes to the one pis ton，and work through stuffing boxes on both ends of the cylinder．

## Improved Gate．

Mr．Ashley Hotchkins，of Schenevus，Otseg Co．，New York，has invented a very excellent improvement ingates，whereby in a simple manner，a gate will swing open loth ways， according to the direction in which it is swung． It combined also the self closing principle along with its quality of swinging both ways， thus making it one of the most desirable of gates and a great improvement．Measures gates and a great improvement．
have been taken to secure a patent．

## American Flour．

We see it stated in some papers that the character of American flour is suffering in the foreign markets，that it cannot be sold for $\$ 4$ less per barrel than the Trieste kind．Will our friend the＂American Miller tell why ？＂

Improvement in Treating Pototoes．
A patent has been taken out in London for preparing potatoes for seed，by scooping out the eyes with a very small portion of the pita to by a gouge，and then dusting over the eyes or germs with powdered charcoal．It is sta ted that the germs thus treated answer the purpose as well as whole potatoes，and can thus be conveniently sent in barrels to any distance．This is a subject worthy of the at． tention of our farmers．

It is stated ground too close，and was of a bad color

