Bcientific Americar
NEW YORK，FEBRUARY 15， 1851.
Grand Supper．．．－The New York Sun Printing
Press．
We were fortunate in being at the splendid Complimentary Dinner given to Col．R．M． Hee，by the enterprising proprietors of the New York Sun，on the evening of the 29th ult．We intended to have had our article on the subject in the Scientific American of last week，but by an oversight，and a great one，it was not；our great press of matter alone mus plead our excuse
The Dinner was given at the Astor House，
Mr．M．S．Beach presiding in a most able man－ ner，and Mr．Alfred Beach doing other honore with ease and grace．In every sense of the word，the dinner was a most splendid one； and Col．R．M．Hoe replied．Mr．James，the distinguished novelist，made a few happy re distinguished novelist，made a few happy re－
marks，so did Major Nuah；also Rev．Messrs． Beecher，Thompson，and Chapin．A number of very good remarks were made during the evening．C．M．Keller replied to a toast res－ pecting Prof．Morse＇s invention，and stated that his own countrymen had disputed his claims．The allusion was rather out of place and Mr．H．O＇Reilly，who was near him，felt it deeply．When he arose he spoke feelingly upon the subject，and went over a history of his telegraphic operations．Some of his state－
ments were incorrect，or his words conseyed ments were incorrect，or his words conveyed
different ideas from those he，wished to con－ vey．He was understood to say that no New York merchant could be found，in 1845 ，to sub． scribe to a line of telegraph，and the first was subscribed by Mr．Swain，of the Philadelphia Ledger．This was not so：the New York and Philadelphia line was constructed by New York merchants，and this was the first line constructed by private enterprise．Great cre－ dit is due to Mr．Swain for what he did for another line；but Dr．Doane，of New Jersey， Mr．Norton，of this city，and a few others， were the leading minds of the first line．This flash at the supper，however，between Mr．Kel ler and Mr．O＇Reilly，passed off smoothly Quite a number of eminent authors and edi－ tors were present，and the Messrs．Beach de－ serve high praise for bringing such minds so agreeably into contact．
American inventions were deservedly com－ plimented，and although we were not called upon for a speech，not being very gifted that way，no one there responded so heartily to the tributes paid to Mr．Hoe＇s perseverance and genius than ourselves，and none，perhaps，were better acquainted with the general history of our national inventions．Improvements in
the Printing Press claim our admiration and the Printing Press claim our admiration and eloquent writer，＂if a planet was blotted out from our system，its place could be well sup－ plied by a Printing Press．＂Col．Hoe，notcon－ tent，it would seem，with comparing the print－ ing press to a planet，comes along with his Great Rotary，and hoes out Suns at the rate of 20,000 an hour．No wonder all the guests at the Messrs．Beach＇Dinner were more than pla－ net struck．The newspaper press deservas great credit for encouragement to mechanical invention，in the way of improvements，and
none so much，we believe，as the New York none so much，we believe，as the New York
Sun－long may its spirited proprietors live to reap the deserved rewards of their spirit and enterprise．The new press of the＂Sun＂is the largest and fastest in the world－this is something to boast of，assuredly．
Oar Ocean Steamships and their Boilers． We can always tell who are ignoramuses of science and panderers to public feeling，by the positions they take respecting different ques－ tions．It is human nature to hurrah very loud at any partial success，then to shower abuse upon any failure．Whenever we see a man or men toadying to such feelings，it is very good evidence that＂there is something rotten in Denmark．＂This is the case at pre－ sent with our Atlantic steamers．Brawlers who once boasted the loudest，are now the noisiest in their denunciations．One says the Collins line of vessels are inferior，because

Mr．Colline would not adopt and pay for the ＂Montgomery Boiler；＂another blames the paddles，another the engines，another the whole management，another the build of the vessels．Who among them all knows what he is talking about．The most unlearned in these things are always trying to show their eruds tion，and this they do most effectually－to their own satiofaction，but not to that of oth－ ers．It is not possible for any person to be a judge，comparatively at least，unless he be ac quainted with the build of the hulle，their form the engines，boilers，and the whole ma nagement of both the Cunard and Collins teamers．Now we believe that no one man －neither an engineer nor other person，her or on the other side of the water，is perfectly informed on all these points．We want fact －facts，nut speculations，and until these are urnished，it is best to suspend all definite judgment，excepting upon those points which re prominent and manifest to those who are sequainted with them．As it respects the form of the－Cohins＇steamships，the English writers，who have no warm side to the build ors of the Cunard line，stated that the Atlan－ tic was far superior to the Asia．Many of our ship captains，to our knowledge，have ex pressed the same opinion；but even the judg． ment of these men is not always correct，for e once saw a number of cortificates of sea aptains，speaking in the highest terms of certain improvements in life－boats which turn d out a most miserable failure．It was ge nerally asserted，that as the Colling＇steam shipa had tubular boilers，they had an advan． tage over the Cunard line with their flue boil ers．This was held up to be a great improve ment by some English engineers，and a num ber of our own，also，It wasstated that these boilers effected，or would effect a great saving of fuel．Whether this is so or not，we cannot tell，for there is an absence of facts，but where there is plenty of boiler－room，we believe that turn fur is like the long cylinder turn flues．It is the safest and best．For
compactness the tubular boiler is best，but then it needs pure water，for it has so many joints that it is difficult to prevent leakage owing to the expansion and contraction；in crustations are also sure to play the mischie towards the end of a tedious sea voyage．Tu－ bular boilers are peculiarly liable to priming and great danger arises from this cause．A scale of about 1－16th of an inch is formed in the interior of the beilers of our ocean steam ers，during one passage between New York and Liverpool，and the evil of this is far greater in tubular than it can be in any other
boiler．It is very difficult to maintain the feed boiler．It is very difficult to maintain the feed of tubular boilers at a uniform height，owing in the common boilers；the only remedy is carefulness on the part of the engineers－when this is wanting then there is danger．There can be no doubt but the Collins＇Mail Line are
the fastest stearrships we have，but our rivals can do better than they have yet shown us， and it is right we should all know it．A steamship，making an average of fifteen knots an hour，would go to Liverpool in eight days and a half；not one of the ocean steamer have ever done this，ar．d yet the British Ad－ miralty，in their conditions with the Holyhead Mail steamboats，running between England and Ireland，stipulate for an average passage of fifteen knots per hour．There can be no
doubt，but almost everything depends on the doubt，but almost everything depends on the engineers－other things being equal－and our engineers，especially in the use of fuel，may have yet much to learn．
It has been established beyond a doubt that it is very foolish to push through a steamship， on a long passage，by dint of coal．It is a fact，that，as the speed of a steamship is in－ creased，the consumption of fuel is increased about four－fold．If a steamship adds one－ ourth to her maximum speed，by steam pres－ sure，she will have to consume just double the amount of coal．This is a very important nsideration．It is thus very easy to run short of coal in stormy weather without gain－
ing much advantage in general speed．The draught of the funnel－the velocity of heated gases，is another important consideration，
has much to do with the general economy of using fuel．As we have stated once before， ters of be well for science if regular regis hip whole workings of ocean steain hips were fairly kept and published every six months or so．Then there would be som
grounds，sure and steadfast，for comparison This would lead to the correction of evils，and no doubt to many valuable improvements．

Wallet Full of Inventions
Greencastle，Pa．，Feb．， 1851.
Gents．－I herewith send you nine inven tions of my own，and would like to have you examine them and give your opinion upon them ；I send you nothing for your trouble，ex－ pecting that if I get any fof them patented， that you will make enough out of me to pay your trouble．I have a lot more inventions on hand，that are in my mind，but I think this batch will answer for this time．Very respect－ fully，yours，

E．P．
No．1，Car Wheel Brake
No．2，Railroad Signal．
No．3，Spark Arrester．
No．4，New Mode of Building Vessels．
No．4，New Mode of Buil
No．5，New Paddle Wheel
No．5，New Paddle Wheel
No．6，A Cut－off Valve．
No．6，A Cut－off Valve
No．7，Bedstead Fan．
No．7，Bedstead Fan．
No．8，Bedstead Fastening
No．9，Drying Machine for Grain
P．S．－Can you tell me the effect that would be produced by pumping part air into a steam boiler with the water．
［We publish the above for the purpose of giving a little of an advice．The last question we shall answer first．The effect produced would be the filling of the boiler with water and air．
We have got through with five of the inven－ tions，and have not yet found any of them pa－ tentable．It will be some time before we get through with the others，and if we don＇t find ny of them patentable，we suppose that our orreapondent will conclude that we have been well paid for our trouble，for he has made n provision for our labor，excepting we find omething patentable，and then，he states，w will make enough out of him to pay for all How exceedingly generous and considerate It would indeed be a new way to pay debts， y making the plowman and sower responsibl for their wages on good and bad seasons．In
ehort，if we cannot make our correspondent＇s rticles patentable，then，sirs，you don＇t de erve any pay for your labor．We are quite willing and ready to do any reasonable servic in that line，according to our practice－for this，no doubt，assists us in business．We make this confession candidly，but we do not wish the public，nor any one of our sub－ cribers to understand，that we make a prac ice of over－charging for patent businea either to pay for E．P．＇s unpatentable examl nations，or those of any other person．We charge for every specification a price based upon the labor and skill required to execute it， and no more．Our prices are reasonable－in fact quite low，because we have a great deal f business，and we are not guided by the old awyer＇s rule，of making one day＇s work pay or the next day＇s idleness．The skill，talent， knowledge，patience，and experience requisite to execute patent papers，as they should be，is possessed but by very few．
Every correspondent should be guided by reason in asking information；he should de－ cribe clearly，definitely，and as briefly as pos－ sible，his objects．The great majority of our subscribers have the real good sense and gen tlemanly appreciation of what is right，in this respect，but oftentimes，we own，our feeling are not a little hurt by having such cases as the above，especially when our correspondent＇s description of his inventions concludes as fol lows：＂If none of the foregoing inventions should prove worth anything，I may perhaps trouble you with a few more not of the same
sort．＂We beseech our correspondent to spare us the infliction．

Norfolk Steamships
A bill has bean introduced in the Virginis Legislature for chartering a company to con struct steamships and establish a line of steamer
Europe．
nat Union Lotteries，sc．
There are msiny kinds of gambling，but the nost wicked kind is that which has a tone of morality and respectabllity about it，that which has respectable men for its parasites，and mealy－ mouthed moralists for its panders．As a counterfeit coin is the more dangerous the nearer it resembles a genuine one，so is tbat kind of deception which wears the most ho－ nest－looking countenance，and this is the case with your＂Art Union Lotteries，＂for pictures， statues，\＆cc．The success of some＂Art Unions＂has so fully developed the truth of our premises，that we now have lotteries for furniture in Tripler Hall，accompanied with ine concerts，and for fear that any one should question the morality of such proceedings， why，some of the funds are given in the bound． less generosity of the toadying lotterists＇ hearts to charitable Institutions．A raffle for poultry in a dram shop，a rafflefor an old tea－ pot，at an Irish dance，to assist poor Judy Larkins，is virtue itself compared with these respectable gambling lotteries．The greater the amount of intelligence and of respectability there is about any evil，the more beinous that ovil is．High and low like to copy after that which is respectable．Vice often becomes fashionable，because practised by those who are termed＂honorable and respectable．＂To throw odium on the character of a drunkard， the Spartans often made their helots drunk， as a warning to the young patrician race．As it was in days of old，so it is now ；human na－ ture is the pame all the world over；men are naturally led to despise what is low in others beneath them，while the low themselves pal． liate their evil practices，by appealing to the same being practiced by the respectable．Oh ！ out upon all such respectability．Butthis is an age of philantbropy．We may be told tbat Art Unians encourage a taste for the fine arts，and enable many people to possess fine pictures，who otherwise never could．We may lso be told that furniture lotteries enable poor people to possess house furniture of a quality far superior to what they ever could other－ wise．This is all very fine－robbing Peter to pay Paul．How benevolent the managers of those schemes are．It reminds us strongly of the days when respectable church members used to have their tavern signs decorated with the heads of Calvin，Edwards，Fletcher，John Wesley，and such worthies．All schemes of chance－this catering to that morbid passion of the human mind－a high strike for making good bargain－is evil，and evil only．No one can limit its consequences．It begins with respectable draw for a＂would－be good pic－ ture，＂and ends with the secret gambling ta－

We speak against these practices，combat． ting with a principle，for we care not how fair these schemes are said to be conducted－they re founded in evil，and we cannot expect pure waters from a turbid fountain．

## Attention，Patentees．

Messrs．Editors－As I am a subscriber of your valuable paper，and you are willing，as ar as you can，to give information respecting patents on different improvements，I would ask about a purchase I made，of a patent right on an article of some value．The patentee，be－ fore the right expired，put in a disclaimer for part，and has taken out Letters Patent for that f which he is the invertor；by this，his pa－ ent is continued for the full term of fourteen years，when his original patent would have ex－ pired in three years．Purchases were made of him before he put in his disclaimer，now，have a right in the patent last taken out by him or the fourteen years？Please answer i our next paper，and oblige
Lewiston，Pa．，Feb．8， 1851
［Our córrespondent，A．F．，is in error；no disclaimer extenda a patent a single day be－ yond its original term．If A．F．has not lost anything by the disclaimer，the patentee has not gained．Let A．F．see to this，his patent may now be of little worth．－ $\mathrm{EED}_{\mathrm{D}}$ ．

Some of the London Papers give out that the Crystal Palace will be lighted，daring the fair，by the American electrical light．We
won＇t see it ：happy those will be who do，eh？

