## 

B．\＆．F．，of Me．－A patent was granted in England， in 1824 ，to W．If．James，for precisely the improvement you describe，viz．，Placing the drivers on separated
axles，each having two cranks at right angles to each other，driven by separate pistons and cylinders．This
device was applied to a locomotive for common roads， and this would be a sufficient ground for the refusal of a patent，for the application of the same thing to a rail－ way locomotive，even if it has never been proposed to
apply it on railways，which we think doubtful． apply it on railways，which we think doubtful．Some
locomotives patented by R．Stephenson，（the great English engineer，）having three cylinders connecting with three cranks ou one driving shaft，were tried in England about ten or twelve years ago．The object to be accomplishal by this was partly the same as that
which you desire to oltain；but the invention was －never extensively used．
W．H．，of Ill．It is
passing it through red－los inon tubes Thisose steam by passing it through red－－iot iron tubes．This is not，how－
ever，effected entirely by the agency of heat，as hea alone can never effect the decomposition；but the oxy－ gen of the steam is caused to combine with the iron
and tine the hydrogen is set free．To effect the decom－ and tius the hydrogen is set free．To effect the decom－
position of steam by heat，the pipes must be made of position of steam by heat，the pipes must be made of afflity will be increased by heat；or they must contain some material－which must be renewed from time to time－possessing the above charactcristics．Many ex－ periments of the kind you describe have been tried， both with a view to the use of tho gases as a motive
agent，and as fucl，but with not much success． agent，and as fucl，but with not much success．A pat－
ent was recently granted for an apparatus for decom－ posing the exhaust steamfrom an engine in the furnace， and burning up the gases．We cannot say that your idea of decompa ing the steam in the tubes，and keep－ ing the tubes heated ly their combustion，has been fully anticipatcl，but we do not regard st approach to practicalilility
E．C．M．，of－－Your theory regarding the spot：on
the sun being huge chunks of plancts，broken by col－ lisions，and precipitated on the disk of the great lumi－ minary of day，is certainly nerr，but we fail to gain from it any more light on these siots Your olinion that the moon once occupicel the position now filled by the
Pacific Ocean，and that it was projected from the earth to its present position by a terrific explosion，is also new，and as droll as it is novel．The explosion must have been one of no small magnitude，and Mother
Earth must have kicked bret considerably after dis－ charging such a reshectable sized bullet a distance of 237,000 miles．Talk of the monster cannon of modern
days，and Lancaster guns，after such an exploit of ancient gunnery－it＇s all moonshine．
J．N．＇T．，of Ill．－In nuswer to your inquirics respect ing the＂Paine light，＂yot are perfcctly correct in your views regarding the general construction of the appuratushy which Paine asserted he could decompose water and resolve it into as ingle gass，capalle of giving
a luilliant light，but the whole affir was a cumplete a brilliant light，but the whole afiair was a complete could he obtain a good white light from the gas of the water，even if he had decomposed it in the manner lie described．Water had been decomposed long before he professed to have made the discovery，by currents of electricity，generated by revolving helices in the mand－
neto－electric macline；but no useful application can be made of this scientific fact，owing to the great cost at which the hydrogen of the water is thus obtained，and because it has to be carbonized with camphene or naph－ tha after it is generated，as without carbonizationit produces only a dull blue flame．
W．F．W．，of Philadelphia．
with a cement for mending－We are not acquainted with a coment for mending glass that will remain fluid
when cold，and be clear and resist the action of heat and moisture when dry．The common diamond cement
for glass and china is composed of isinglass soaked in for glass and china is composed of isinglass soaked in
water until it becomes soft，then dissolyed in proof water until it becomes soft，then diasolved in proof
spirit，to which a little mastic disolved in alcohol is added．
G．H，A．，of Wis．－You will find a description of the Soleytific Anerican
S．M．，of Del．－We do not know of any oue who would take an interest in your invention abroad．Your best course would be to get some one with whom you
arc acquainted to aid you． J．A．，of Ohio．－Your cornstalk cutter could not be made proftable under foreign patents．Indian corn is
not mucl cultivated in European countries．There is scarcely a stalk of it grown in England or France． S．C．，of N．Y．－We are really at a loss to know what you mean by stating that you are prepared to defend the
thcory in the article published，viz．，＂which are the best－plain or ornamental stoves？＂＇You surely do not mean that iron below a red heat will decompose air．
That is the only point in question．
A．W．，of Me．－We do not see what advantage is to be
oltained by the use of a tube 300 or 400 fect long，to conduct the Atlantic cable from the stern of the vessel．
A tube thant will conduct it into the water，in our opin－ ion，is sufficiently long．
M．C．M．，of D．C．－Your communication has been reccived，and will meet with attention．
J．A．M．of N．Y．－The office of the Soottish Amerr2 cuz Jourrual is No． 111 Nassau st．，this cit
you truly remark，an excelleut newspaper．
you truly remark，an excellent newspaper．
C．F．$\Lambda$ ．，of Mass．－Stick molasses candy is made by drawing it，while pretty hot，between the hands，until it is quite cool．The drawing，doubling，and twisting of
it changes its color，from black to yellow，and renders it more tough．Flour is sometimes intermixed with the mass，but it adds nothing to its quality．
J ．C．，of Ohio． Co enable us to get
J．C．，of Ohio－－＇To enable us to get up an engraving
of your corn planter we sla⿱亠䒑口阝 require a model．The筑 expense will be $\$ 12$ ．We do not print circulars．

W．H，of N．Y．－You can procure a pam，i．t c
taining the copyright law of Buker，Godwin \＆Co．，of this city．
J．M．W．，of Oxford．－We do not think there is any chance for a patent on your proposed method of adiust
ing manss by means of corls and pulleys．Substantially ing mans by means of corct and pulless．Subs．
the same thing has been trised fort this pui：pose．
Money received at the Scientific American Office on
nccount of Patent Office business，for the werk account of Patent Office business，for the week enuin M．C．
M．C．，of Mass．，$\$ 25$ ；W．H．A．，of Ga．，$\$ 23$ ；S．L．，of
L．I．，$\$ 30$ ；J．\＆S．P．P．，of N．J．，$\$ 30$ II．\＆S．，of Ill． M．
$\$ 30$ ；R．H．K．，of N．Y．，$\$ 30$ ；L．B．S．，of Conn．，$\$ 30$
F．N．，of L．L．，
P50 F．N．，of L．I．，$\$ 50$ ；W．\＆S．，of Mass，$\$ 30$ ；W．D．，of
Pa．，$\$ 25$ ；G．L．D．，of Pa．，$\$ 25:$ H．D．B．，of N．Y．，$\$ 30$
F．L．W．， G．，of N．Y．，$\$ 30$ ；L．S．C．，of N．Y．，$\$ 30$ ；F．C．G G
N．J．， N．J．，$\$ 10$ ；L．C．W．，of N．C．C．，$\$ 25$ ；L．L．L．N．$\$ 30$ F．G．，of
$\$ 25$ ：L． of N ．
$\$ 25$.
Specifications and drawings bclonging to parties with
thefollowit thefollowing initials have been forwarded to the Pat ent Office during the week ending Saturday，Decem－
ber 26,1857 ：－ ber 26， 1857 ：－
B．M．，of N．
W．D．，of Pa．；w．H．A．，of N．Y．；G．L．D．，of Pa． W．D．，of Pa．；W．H．A．，of Cia．；M．C．，of Mass．；J．
H．F．，of Cal．；W．R．L．，of Conn．；F．L．W．，of S．C L．C．W．，of N．C．；J．Mcム．，of N．Y．；L．L．N．，of Mich．

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Reobipts－When money is paid at the office for sub scriptions，a reccipt forit will always be given；but
when subscribers remit their money ly mail，the may consider the arrival of the first palier a Eoeau fic acknowledgment of the receipt of their funds．Tl： Post Ofice law does not allow pubishers to enclose Pecels inthe nar
Back Nombers．－After the 1st of Janiary，we shail commence sending the Scientric Anfaci：i to nel unless the person ordering exvreases a dopire to re－ will be furnishod from the coumenemment of the volume．

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pectfully reguest that our patrons will make their ad pectfully refruest that our patrons will make their ad－
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THELTTME ERICE MAKER－THE NRW








SEwiNe Machines－THE subscribirs


Water power And ractir










## 






GETTING RTCH：GEMTLEMEN：THE FOL









MGGMNE BEUTNG，STRAM PaGRING



ALCorrs CidGeviric Latire－THis




HUGES Corn PLANTER－PATENTED





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$\mathbf{W}^{\text {ogDWORTLIS PATENT PLANING }}$






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 LAP－WELDED MoN ROHER TVBEES



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