## －

L．M．V．，of N．Y．－－See Mr．Lester＇s advertisement on another page，for a good planing machine．We are no
acquainted with a whitewash that will last for three yenrs；but a cheap paint，composed of dry clay and
sand in powder，some whiting，red lead，and linseed il，will perhaps ansyrer your purpose J．N．C．，of ohio．－You state that you have bouglit a patent recipe for making a pa！nt，and have desciibed
it as 2 composition of shellac varnish and commo paint，but say that while you can cut the varnish，you cannot mix it with the paint，and wish us to tell you how to mix it．Why don＇t you inquire of the persion
from whom yout bought the recipe？He is bound to tell yon，for＂value rececived．＂We We do not know why you have found difficulty in mixing paint with lac varnish． difficulty expericaced before your case．
J．Y．P．，of N．Y．－You state that you cannot fill your iron molds in making brass castings，and that you are
unable to find out the causc．We do not know whercin the erior in casting exists，but the result undoubtedly hink，must de retained inzide，which pome air，we filling the entire interior．
J．T．，of Maine．－We presume you do not moa whalebone buttons，but those made of a composition of
indıa rubber resembling whalebone，which are now in common use．We are not acquainted with the manu acture of whalcbone buttons．
D．B．T．，of Oliio．－Your suggestion to make an ex
cavation large and decp enoush to hold sufficient water to float the Lowithan，has been prorosed to us several times．It has not escaped the attention of English en gineers．
J．R．，of La．－We are in receipt of your Letters Pat ent and $\$ 22$ ．The engravings will appear in our pape in about two weeks．
J．S．，of Ohio．－Yo
， you now find that the water is hard，and curdles soap． You can render it soft again by the use of some soda ash in solution．If you employ the water tor drinking，be vers careful and use only a very small quantity of the ticular．
M．B． of the double－acting pump，but do not find your sketch ble feature in it．It is not new to work the piston o one cylinder by a rod passing through the hollow rcd of
the other piston．The ill－fated steamer Pacific was not the other piston．The ill－fated steamer Paci fic was no
300 feet long；the Persia is 360, the Adriatic 354，an the Levathan 700 feet long．
fifty cents ：you can obtain it from R．L．Shaw，No． 22 Water street，this city．
H：C．S．，of N．Y．－We do not know what kind of oil
the＂lunar＂is．We think it is a coal oil with a flash name．The agents who sell it can tell，if they will；ask L．A．，of Mass．－There is no power gained by the use of power．You will obtain no advantage from one o the shaft of a circular saw driven by a belt；if it were a reciprocating saw，it would be advantageous． in reference to the velocipede patented by Kellner you should order a copy of his patent from the Commis F．B．W．，of ill never could occur，as a ayphon will only work when th delivery tube is longer than the receiving tube．In the first example，the water would rise up the tube just so long as the atmospheric pressure was excluded by mc
chanical means，as an air－pump；but the monent emove the air－pump，the air presses just the same on that it would again fall to its original level．
J．T．II．，of Tenn．－We are not aware of having re ceived a letter from you before．You can correspond plies with our rules in such matters．
S．Marshall，of whacturers of cashes to corre America and England．
A．B．，of Ohio．－Gun barrelsare browned by rubbin heir surface with a weak solution of nitric acid and days until they are coated with rust． brushed off ；the barrel washed in warm water，dried and rubbed up with a little wax dissolved in turpen－ required to bite a sufficie s depth into the metal E．E．W．，of N．H．－I Smee＇s Electro Metallurgy， you will find a full des ription of the processes for mul by the galvanic battery
E．C．M．，of N．Y．－We decline publishing your com munication，as it does not，in our opinion，throw any light on the phenomena of the remains of tropical plants and animals now found in the arctic regions． You have advanced no facts to prove that the moon bed of the Pacific or Atlantic oceans as you assert，b） great ateam explosion caused by the water getting int the red－hot interior of the globe．
J．T．，of Ohio－There is no power in a lever；it only
becomes a mechanical power when force is communi－ cated to it．Those neighbors of yours wh intend $t \mathrm{t}$
derive as much power from a long lever as with our－horse threshing machine are not acquainto（wit pay all the expense，if it operates．
A．F．，of Mass．－You ask the question，＂H
he right to buy up second－hand patented mac
so long as the original table of frame is used in the
same Territory in which they were originally sold to be use：${ }^{\text {？＂＂To replace the essential worn out parts of a }}$
patented machinc on an old frame is nothing less than making a new machine．Unless you own the patent right，you cannot．As a mechanic，you can repair any M．B．F of N Y－Ma lows，and you will have them arranged so as to run one－ twelfth slower each setoff．Driver shaftiirst pulley， 8 － inch；driven pulley，4－inch；second driver， 7 13－17－in．， driven $44-17$ ；third driver， 73 －in．driven 44 ；fourth， 1－5 in．driven 4－4．5．This proportion of pulleys will en－ twellith with every change of the same belt，so as to run your cards with the speed desired．

Money receired at the Scientific Amcrican Office on account of Patent Office business，for the week ending Saturday，January 30，1858：－
F．H．S．，of Conn．，
F．H．S．，of Conn．，$\$ 25$ ；T．G．，ofPa．，$\$ 20$. S．L．W
of Pa．，$\$ 150$ ；N．S．，of La．，$\$ 30$ ；J．P．M．，of R I $\$ 30 ;$ A．F．F．，of Vt．，$\$ 30$ ；A．B．H．，of N．Y．．$\$ 30$ ；C
W．of Pa．，$\$ 25 ;$ M．G．，of Pa．，$\$ 25 ; \mathbf{C}$. Van DeW．，of Mase．，$\$ 27$ ；J．B．F．，of Wis．，$\$ 30$ ；J．II．，of N．Y．．
$\$ 25 ;$ F．\＆Co．，ofN．Y．$\$ 2250$ ：C．$\&$ M．，of Iown，$\$ 20$ H．A．W．，of N．Y．，$\$ 25$ ；J．T．，of N．J．，$\$ 10$ ；T．V．，of
Cal．，$\$ 27$ ；C．E．G．，of Pa．$\$ 30$ ；W．I．M．，of Conn． Cal．，$\$ 27$ ；C．E．G．，of Pa．，$\$ 30$ ；W．I．M．，of Conn．
$\$ 30 ; \mathrm{S}$ G．，of Mich．，$\$ 50$ ； T ．A．．．，of N．Y．，$\$ 10 ;$ W． C．of Conn．，$\$ 32$ ；＇「．\＆B．，of N．Y．．$\$ 44 ;$ ；
N． $\mathbf{Y}$ ．，$\$ 30$ ；F．F．P．A．J．of Conn．，$\$ 25 ;$ A．B．，of Ohio
．
 Conn．，$\$ 30$ ；A．E．L．，of Pa．，$\$ 15$ ；C．B．C．，of N．Y．
$\$ 20$ II． Co. of N．Y,$\$ 57$ ；F．C．G．，of N．J．，$\$ 20$. Specifications and dra wings belonging to parties with he following initials ho ve been forvarded to the Pat
ent Office during the week ending Saturday，Janu－ ary 30， 1858 ：－
C．\＆M．，of Iowa C．B．C．of N．Y．；J．D．，of N ．；W．G．S．，of Mass．；L．R．，of Mass．；II．A．W．，of N．Y．；T．G．，of Pa．；M．G．，of Pa．；J．H．，of N．Y．
C．Van DeW．，of Masa．；F．H．S．of Conn．；N．W．，of Conn．；A．B．，of Ohio ；W．McK．，of Cal．；T．V．，of
Cal．；F．．G．，of N．J．；W．W．D．，of Cal．；L．D．，of N．Y．；I．C．，of Vt．；A．L．，of Conn．；T．R，of Pa． T．D．I．，of Mich，；W．O．H．，of Pa，
S．G．Jr．，of N．Y．；J．A．B．，of Mass．
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irom every quartcr as this，consequently there are
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hered and during the hours of buinesa
hand to counsel and advise with inventors．They a at
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ca．ses for the Patent Office． ＇Torender Pur Patent Agency Department complete in
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ty of new inventions．pithont charge．Wealso furrish a
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 one hal of the cases presented to ns for our opinion，ba－
fore any exp ense has occurred in the preparation of the
case tor a patent． case for a patent．
When doubt exists in regard to the novelty
vention，we advisin in such cases a
to be made at the Patent Office．We are prepared to
conduct such examinations at the $\mathrm{I}^{\prime}$ atent Office through our＂Branch Afency＂，upon being furnished with a
sketch and description of the improvement．Our fee for this service will beq．
After suthicient experince under this system，we con－
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reconmend it as asafe precautionary step in fidently reconmend it as a safe precautionary step in
all cases before applicication 18 made for a patent－not
that there will be no rejectiong under this yyatem．
 the examination of cases；but，nevertheless，many ap－
plicants will ie saved the expense of han application by
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by mail must enclose stamps to pay return postage． form． for a p．atentthrough ouragency are very moderate，and
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siill，and fidelity to the ntorests of your employers
Yours，very truly，
CHAS．MASON．

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horse and boy，will cut down standing corn at the rate
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