## TO CORRESPONDENTS．

＂H．B．of N．Y．＂－Your drawing and mo－ del came all sate and the papers will be made out with all despatch．
＂E．L，of Md．＂一Choose a steam engine， and one of twelve horse power．It will be cheapest in the end．
＂J．T．S．of Va．＂一You will find plenty of mechanics in Boston to take charge of your machine shop．
＂R．M．G．of N．Y．＂$-W e$ are sorry to think that you should leave the purely prac－ tical，for the vague and unsound．What pow－ er can you get above that of the steam，that is，the fountain．We are sorry to say，that many good mechanics have a notion that le－ vers and cranks increase the power．Tis all folly，and we exhort you to steer clear of the rock upon which many have split．
＂N．W．of Conn．＂－An invention to ac－ complish what you propose in the draw rol－ lers，was patented last year，and the Exami－ ner＇s Report describes it to be near the same． The distance between the draw rollers can be varied at pleasure and there are no less than 4 different parts of the invention，which ap－ pears to cover a wide field．An examination
at the Patent Office would perhaps be the best at the Patent Office would perhaps be the best mode of procedure for you．
＂L．A．B．of N．Y．＂－Spiral pipes for the throwing of water upwards，have been losig known，but a spiral tunnel，to our knowledge， has not been used．
＂S．J．of Md．＂－There is no use in using the nitrate of iron in dyeing the blue．
＂Erratta＂－In answer to a＂Subscriber，＂ last week，＂cylinder，＂should have read cis－ tern．
＂N．K．of N．Y．＂－It will require a force ot two andsix－sevenths pounds applied to the lar－ gest wheel to balance the weight of 10 lbs ．as represented in your diagram．The amount of power necessary to draw up the 10 lbs ．weight depends of course on the friction of your wheels．They might be so accurately fitted as to require but the addition of one－seventh， of three pounds，when the 10 lbs．weight would rise．
＂G．W．H．of N．Y．＂－Your tallors measu－ ring instrument will appea：next week．Cir－ cumstances have prevented its appearing in this number．
＂G．L．of La．＂－All that we have got to say about artificial cold will be found in this number．
＂T．R．of Va．＂－The resistance arising from the friction of water flowing through pipes is directly as the velocity of the water and inversely as the circumference of the pipe． ＂J．C C．of Vt．＂－Cannons are proved by hydraulic pressure，which is calculated by the weight of a perpendicular column of wa－ ter，the area being equal to the bore and the height equal to the given height．
＂C．B．N．of New York＂－You will not be allowed to use the Croton water to propel your wheel，it being against the rules of the Company to allow it to be used for such pur－ poses．No person can tell the power，unless they know the quantity of water discharged in a given time（the velocity，）as well＇as the fall．
＂W．B．S．of N．H．＂一It will not be possi－ ble to get a patent，as your principle is the same as others in use，of which there are a great variety．
＂G．C．of N．H．＂一The rule you want is just the same as the rule for calculating the relative diameters and speed of pulleys．See Whitlaw＇s Treatise．

Pletorial National Library．
A new periodical bearing the above title， has made its appearance upon our table，and
from a hasty perusal of it we should pro－ nounce it both useful and entestaining．The number before us is for July，and it contains fine engiavinge and a good list of contents．－ W．H．Simonds publisher，No． 12 Sciools st． Boston．Price only $\$ 2$ a year．We shall ex－ press our yupws in a more elaborate manuer in some future number．

There fell during the last year，in the city of Sayannah，Geo，not less than 59 inches of rain．As much as wuuld nearly bave covered the whole surface of the ground，five feet in depth．

Rass Pavement．
The Russ Pavement requires thorough in－ spection as it progresses，and much care．The last work is reported as having been greatly slighted，the cubes being loosely set together in sand，which will soon wash away and leave he upper surfaceany thing but perfectly true Cement should be faithfully used to the last， in oider to produce the pavement which is so much admired．We have seen some of the cubes taken up to be relaid a few days after i was thrown open for travel．

## Patent agency．

Applications for Patents made at this office on the most reasonable terms．Neat drawings， spectications，and engravings of the first cha racter，and cheaper than anywhere else．No－ fices of new inventions，Agency for the sale of Patent Rights，and all business of that na－ ture，promptly attended to．Those who have patent rights to dispose of will find a good op portunity and field for their sale－such as Horse Power Machines and Waterwheels of every description．The largest circulation in the wezli for advertisements of inventions，\＆c

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05－This paper sirculates in every State in the Union，and is seen principally by mechanics and madium of advertising，for these who import or man ufacture machinery，mechanics tools，or such ware and materials as are generally used by those classes． The few advertisements in this paper are regarded with much more attention than those in closely printed dailies．
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We Subscriber will furnish Cotton Manufacturers
its being his introduceved Cotion Willow．The fact of its being introduced into most of the best millt in
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cotonso much better than any other that there is much less power and repairs needed on the suc
ceeding machinery．It is as safe from fire as a Card ard its form and action are such as to draw all ihe
Avings and dirt from the journals；it will convey he cotton to any desirabledistancesiort of 250 feet place nearly worthless for other manuracturing pur－
poses，and will blow the cotton into the ruoms above．All necessary information givenfor placing
nd operatiny the machine in any peouliar or ditio


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Inventors who intend to apply for Pat Inventors who intend to apply for Patents in Eu－
rope may save themselves much disappointment rope may save themselves much disappointment
and outlay by calling at this Agency．
The undersigned respectfully invites all who may
have achieved any discovery in science and arts－ have achieved any discovery in science and arts－
all who may have invented or improved any nueful
machine or manufacture to communicate with this all who may have invented or improved any useful
machine or manufacture，to communicate with this
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ventor to another inventor；nor will he ever show
thed aw and ventor to another inventor；nor will he ever show
thedraw ngs or specifcaions of one party to ano
ther party，or give any explanations without per－ thedraw ings or specificalions of one party to ano
therparty，or give any explanations without per－
mission．His oftices，or rooms，are especially a dap． ionof the business is managed in a s separate aport．
ment，and so hat no applicant can possibly get a glance of the drawings or specifications of otheras．
Inventors，irom sad experience，know the impor－
tance of ance of such an arrangement．
Mechanicaldrawings of every
Mechanicaldrawings of every description execu
ed with despatch，and every inf ormation and assig－ tance rendered to Manufacturers．Inventors，Powe
Loom Makers，\＆c．Our terms wlli be mer Liom Makers，\＆c．Our terms wlll be according to
the nature andextent of the services performed．
For integrity and capability the undersigned re－

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cturing Co．Paterson．N．J．Thomas Rogers，Esq． facturing Co．Paterson．N．J．Thomas Rogers，Esq．
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Wolcott，Esq．New York Mills． Author of the＂Art of Weaving．＂i＂Practical Teatise on Dyeing and Calico Printing，＂，＂Pastoral
Life and Manufactures of the Ancients，＂＂Wondert of Nature and Art＂，\＆ce．
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Ballard＇s Improved Jack Screw． patented．
THE advantages of this Screw for Stone Quarries， purposes are superior to any other similar machine．
The improvement consists in being able to use ei－ ther end of the sce ew，as occasion requires，
It is capable of raising the keaviest Locomotive
with ease，being portable，strong aud power ful，and with ease，be ing portable，strong aud powerful，and
not likely to get out of order．
Many Railroad Compan Many Railroad Companies and Boiler makers
have them in use，by whom they are highly recom－
mended mended．JACK SCREWS，
Of various sizee，powcr and price，constantly on
hand at the manufactory，
No． 7 Eldivilge street，near Division．
mav if
TAFTMS PREMIUM LEETAER COPYING
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THE Subseriber continues to manufacture his Pre－ respectfuly informs his fiiends and the trade gene－
rally，that he keeps constantly on hand a large as－
gortment，which he ofters for sole at reduced prices． sortment，which he offiers for sale at reduced prices．
Orders by mail will be promptly attended to
Gto．CAFT
Worcester，Mass．，April 11，1848．GE．C．TAFT，$\underset{\text { a } 22}{ } 3 \mathrm{~m}$
Stave Dressing Machine．
THE undersigned are manufacturing and have now Staves，which willdress 126 hogshead or 170 bar－
rel staves per hour，with ONE Ho ReE Powre，and with Two horger will doble the numbse
It willdress croomedand winding staves to per－
fection，and leave the full thickness on those with Cection，and leave the full thickness on those with
thin edge，a desideratum worthy of attention．
the The machine is simple．compact 2nd durable，and
has received the approval of every practical Cooper
that has wituessed its operations．We warrant it to perform rully revil to our representation and shall
be pleased to exhibit it to all who may favor us with
a call
 GEO．GLLEERT，Westville，N．H．Co．，Conn．
$\mathrm{j} 3 \mathrm{~m}^{*}$

Tinner＇s Machines．
A．W．WHITNEY＇，Patent Improved Tinner， hand and for zale by JOHN M．BRUCE \＆sONS，
a $223 \mathrm{~m}^{*}$
192 Water st．，N．Y．

PREMIUM SLIDE LATHE．
WHE subscriber is constantly bulding his improv－
ed athes of all sizes，from 7 to 30 feet long，and
cam execute orders at short notice．J．PERKINS，
Hudson Machine Shop and Inon Works，
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O NE copy of this valuable work may be had upon
application at this Ofice．e．It is entirely new and
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publiched in 1847．Price $\$ 3$ ．
Johnson \＆Robbins，
Consulting Engineers and Counsellors opposite
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Gutta Percha Bands． The undersigned have been appointed Agents by now in readiness to furnish Bands and Belting of any

size or length，at the following scale of prices per foot． | Inches．Cents．｜Inches．Cents．｜Inches．Cnts |
| :--- |

| 2 ： | 14 |  | 38 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 21.2 | 17 | 51.2 | 40 | 91.2 | 73 |
| 23.4 | 19 | ： | 45 | 10 |  |
| 3 ： | 20 | 61 －2 | 49 | 10 1－2 | 85 |
| 3 1－2 | 26 |  | 57 | 11 | ： 90 |
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cial agreement．Light Bands for Cotton Mills fur nished at short notice．
Mddress
MUNN \＆Co．New York．mls
Lap welded WroughtIron Tubes FOR TUBULAR BOILERS，
From $11-4$ to 6 inches diameter，and any
length，not exceeding 17 feet．
HESE Tubes are of the same quality and mana
facture a those extensively used in England，
Scotland，France and Germany，for Locomotive， $\mathbf{M a}$ rine and other Steam Engine Boilers．
THOMAS PROSSER d26 THOMAS PROSSER，Patente日，
Johnson＇s Improved Shingle Machine．
THE Subscriber having received Latters Paten
for an improvement in the Shingle Ma chine，is now for an improvement in the Shingle Machine，
rout fearnish them at short notic e，and he
would request all those who want a goo machire would request all those who want a goo machize
for sawing shingles，to call on him and $\sim$ xamine the improvements he has made，as one eighl nore shin－
gles can be sawed in the same given time than by any other machine now in use．J．G．JOHNSON．

GENERAL PATENT AGENCY． REMOVED．
$\mathbf{T}_{\text {cy }}^{\mathrm{HE}}$ SUBSOCRIBER has removed his Patent Agent cy from 189 Water to 43 Fulton street．
The object of this Agency is to enable Inventors to The object of this Agency is to enable Inventors to
realize something for their inventions，either by the
sale realize something fors or Patent Rights．
sale of Patent
Char Charges moderate，and no charge will be made us
til the inventor realizes something frem his invention til the inventor realizes something frem his invention．
Letters Patent will be secured upon moderate
terma．Applications can be made to the undersiga terms．Aplications can be made to the undersiga
ed，personally or by letter post paid．
m8
SA MUEL C．HILLS，Patent Agent．

A．W．Whitney，
Manufacturer of Machines for Working TIN AND SHEET iron， Also，makes to order Engine and other Lathen of
improved construction．${ }^{\text {F }}$ All order by mail，or
otherwise，will meet with pro ord otherwise，will meet with prompt attention by ad
dressing
Woodstock，Vt．，April 17，1848．WHITNEX．
a22 3 m ．

## EHMEVIL NODENGRAVE



## To Mill Owners．

Hent $_{\text {Pressure Water Wheel．}}^{\text {aviland }}$ Patent Centre Vent in successitul Water Wheel．－These wheels are now in successtul operation in many towns in Manne
Massachusetts，and Rhode Island，and are found to Massachusetts，and rinder filly of adaptation any wa－
surpass in power and
terwhel now in use．This whel was awarded the ter wheel now in use．This wheel was awarded the
siver medal at the Fair of the Americ an Instiute
recently held in New York and a diploma at the silver medal at the Fair of the American Instirute
reeently held in New York and a diploma at the
Mechanics＇Fair jn Boston．
The wheels are manufactured and for sale by the
FULT＊N IRON FOUNDY CO．，South Bostog
Mass．，－where the wheels can be seen and any infor mation cencerning them had
Patent Rights for different sale，as above．

## Machinery

$\mathbf{P}_{\text {who are in want of Machines }}^{\text {ERSONS }}$ ．esiding in any part of the United States or Any description of machinery，can have the
orders or ANY DEscription of Machineri，can have their
orders p omptly executed by addressing the Pub
lishers of this pape lishers of this paper．From ar extensive acquain－
tance among the principal machnists and a long ac－ periencenn mechanical matters they have uncom－
mon facilities for the selection of the best mon facilities for the selection of the best mxelinery
and will faith fully attend to any bunsiness entrustee．
to their care．

## SPRING STYLE HATS．

I AM now prepared to offer my old and new cas Summer，at wholesale and retail，a very extensiv
assortment of Hats and Caps－at prices which canno fail to suit the most economical and prudnt purcha－
ser．Store and Chambers－173 Washington street
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W．M．SHUTE m2u

## Important to the Public．

 York Hats or Caps of the best quality and latest style
can be purchased at the chea pest price can be purchased at the cheapest pree vare place
is nox＇s，where may be fount every variety of a
Hat from a shulling Palm Leaf to a Five Dollar Bea－ ver，or a Cap iroma two
iful new $\frac{\text { Knox＇sis THE place－－123 Fulton street．m203m }}{}$ HiNGE．
Important to Buiders and otherg
THESE Hinges are for opening，elosing，locking interior of the house without raising the sash．The All communications，whether for the purchase of
the article，or of Town，County or Stater rights，ad
d．essed to the subscriber，or to d．essed to the subscriber，or to J．W．Ingell \＆Co．
Taunton，Mass．，will be promptly and satisfactocily
attended to． $\underset{j 3 t f}{\text { attended }}$ i．T．Talbot，Taunton，Mase．

