## Bcientific ameritan.

TO CORRESPONDENTS.
J. W. H., of Pa.-It will be only necessary for you to construct a model representing the wheel attach-
M. $\mathbf{P}$, of $\mathbf{N}$. C.-The patent you refer to was is sued Jan. 15, 1851, and the claim will be found on
page 150, Vol. 6, Scientific American. We are not page 150, Vol. 6 , Scientific American. We are not
aware of any suits having been brought to test the validity of the patent, we know nothing against it character.
S. B. H., of N. Y.-We have for a number of years
prosecuted an extensive patent agency business, secured many valuable inventions, both at home and secured many valuable inventions, both at home and
abroad. We can undertake your business upon such terms as will afford you ample satisfaction. Inventors should in all cases entrust their business to competent solicitors, as many times they have failed
on defective papers. We can do your business by on defective papers. We can do your business by
correspondence without the necessity of your coming on defe
correspo
here.
J. P.,
J. P., of N. Y.-An English patentee proposed to propel carriages or vessels by the action of water
kept under pressure in air vessels, the air being consept under pressure in air vessels, the air being con-
densed by stationary power. A main pipe is to be laid between the rails with branches at suitable distances from which the water is allowed to flow against the carriage while it is passing, and thereby propel it.
The probability is, that the inventor will never live The probability is, that the inventor will never live
loag enough to realize the practical results of this cheme.
R. A. S., of Ohio-If you are using the ordinary fireplace you will gain considerable by simply lining the back and sides with fire-brick. The expense
of alteration is a mere trife, and you will save conof alteration is a mere trifie, and you
siderable heat by it, we should think. H. A. R., of Mass.-By reference to Vol. 6, Scienan able series of articles upon the Voltaic battery by an able electrotypist, we can furnish the volume in sheets or bound. You should have it.
you a second-hand engine and boiler, of the capacity mentioned. We are in a position to obtain a good article, and at a very low price. During the past five years we have been in the habit of attending
to such orders, for the accommodation of our subA. J. C., of Philadelphia-A block for docking and building vessels substantially like yours will be The patent was in Vol. 15, 1835, Frankin Journal mouth, Va. The rider block surmounts the ground block and is divided into equal parts by a vertical cuniform section. W'e cannot adrise you to ap-
ply for a patent. ply for a patent.
rom a delay on the part of the the case aro getting his patent out in season-one disadvantage getting his patent out in season-one disadvantage
of a delay. The original papers were injudiciously prepared, and we amended them at his request. It is paramountly important that the invento's applica-
tion should always be well drawn up; loose and mbiguous papers often destroy a patent.
J. W. G., of N. Y.-Yours will appearnext week.
C R. M. W.-Yours will also appear. We could not insert them this week.
A. R. P., of Mass.-Yours has been received
E. N., of N. Y.-Leving's sash machine, we be-
lieve, is well spoken of, and in our opinion no infringement on the Woodworth patent.
K. S. S, of Charleston.-We shall send you the abie :w ottain but would advise you to address $T$.
J. Wood, corner of Chatham and Duane sts., he is a ealer in tools.
E. R., of S. C.-We should like to examine a sketch and description of your apparatus. If you vention.
H. M., of N. Y.-We can undertake your foreign business at any time. As soon as you determine ness will be pushed forward as rapidly as possible T. A. R., of Mo.-Certainly not. The principle ald and well known. 10 years since we sawa ma-
chine constructed upon the same principle in the the city of Troy. The person is evidently an impostor, and should be overhauled.
feet, which is about gauge of the Erie Railroad is $r$ road in the country. It is the than any oththe world
T. D., of Miss.-Several years since an article appeared in the " $\Lambda$ nnales des Mines," Vol. 6 , touch-
ing the quantity of fuel consumed in the cupolas of Birmingham, Manchester. and Newcastle, the proportions were very much greater than since the Bro, near Birmingham, manufactured all the glass for the Crystal Palace. They are unquestionably the
largest makers in the world, employing 1,200 hands, largest makers in the world, employing 1,2
and consuming hundreds of tons of coal.
R. S., of Ill.-The patent of Rogers in hanging the bed stone (when the shaft or spindle to which the
runner is attached, passes through the same) by means of a universal joint in combination with a iner and screw. We have never seen this inventio ticularly.
E.C.C, of S.C.W We have never seen any such ployed in various ways, and could only be claimed operating in combination with some other devices we think yours is new and patentable.
A. K., of N. Y.-If you wish your invention
tought into notice get an engraving published
J. W. J., of Mass.-House's Telegraph employs the
Roman letters of our alphabet. A telegraph to use J. Be J. of Maracters was also in in 1841 by Bain. the comparative value of certain woods and coal as uel, but have some general information. It is the fual to three cords of beech, and twa and a hal ton of Southern pine wood.
M. K., of Mass.-We have known of two cannons he other Your idea appears, rational. A very sim ple tool has been used in this city for widening the not act if it be made red-hot for some length. Are you sure that the steam would not generate electri we think it would.
H. R., of C.W.-Your article on Ventilation will
J. W. H, of N. Y.-The first 26 numbers of Vol. J. M. .
ve be., of C. W.-The back numbers to April 25 our friend took the previous numbers with him.
C. H. T., of L. I. - We believe Dewey's Rake to the different kinds by calling at John Mayer \& Co.'s Jgricultural Warehouse, 197 Front st us free of charge we will sell them the volu

Money received on account of Patent Office busi-


Specifcations and drawings belonging to partie
with the following initials have been forwarded $t$ the Patent Offlice during the week ending May 29:
G. N., of N. Y. ; J. A. J, of N. Y; T. H. D., of

## N. H. ; D. D., of Pa. ; J. H. G., of 0. ; III.; G. B. P., of Pa. An Important Paragraph.

Whenever our friends order numbers they have missed-we always send them if we have them on
hand. We make this statement to save time and rouble, to which we are subjected in replying whe he numbers called for cannot be supplied.
nclose 'receipts; when the paper comes regula subscribers may consider their money as received.
Subscribers ordering books or pamphlets are pa ticularly requested to remit soffient to pay pos-

Back Numbers and Volumes.
In reply to many interrogatories as to what back numbers and volumes of the Scientific American of Volumes 1,2 and $3-$ none.
of Volume 4, about 20 Nos.; price 50 cts. Of Volume 6 , all but 4 numbers, price in sheets, in sheets, $\$ 2$; bound, $\$ 2.75$ of Vol. 7 , all back numbers at subscription price

## Patent Claims.

Persons desiring the claims of any invention
which has been patented within fourteen years, can btain a copy by addressing a letter to this office; stating the name of the pa
dollar as fee for copying.

Patent Laws, and Guide to Inventors. We publish, and have for sale, the Patent Laws of
the United States. The pamphlet contains not only the United States. The pat allinformation touching the rules and regula

## ADVERTISEMENTS.

| Terme of Advertising. |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 8 | lines | rea | sert |  | 50 cts . |
|  | " | " | : |  | \$1,00 |
| 12 | " | " | " |  |  |
| 15 | " | " | " |  | \$2,00 |

mitted; neither can engravings be inserted in the advertising columns at any price.
${ }_{0}^{0}$ All advertisements must be paid for before in-
American and Foreign Patent
 ligned having for several years been extensively
angaged in procuring Letters Patent for new mecha-
 business entrusted to their charge is strictly confidential. Private consultations are held with inven-
ors at their office from 9 A. M., nutil 4 P. M. In entors, howerer, is the preliminaries can all be a xpress or any other convenient medium. The should not be over 1 foot square in size, if possible.
Having Agents located in the chief cities of Eu-
rope our facilities rope, our facilities for obtaining Foreign Patents are
unequalled. This branch of our business receives the especial attention of one of the members of the frm,
Who is prepared to advise with inventors and manu-



BEARDSLEE, PAPATENT PLANING MA-
chine, for Planing, Tonguing and Grooving Boards ande, for Planing, Tonguing and Grooving is now in successful operation at the Machine shop
and Foundry of Messrs. F. \& T. Townsend, Albany N. Y.; where it can be seen. It produces work supe.
rior to any mode of planing before known The ror bo aon mode of planing before known. The
number of plank or boards fed into it is the only
limit the the amount it will plane. For rights to this
machine apply to the patentee at the abovenamed machine apply to the patentee at the abovenamed
foundry-or at his residence No. 64 Broadway..Al-
bany. GEO. W. BEARDSLEE.
23It M YCHINERYY.-s. C. HILLS, No. 12 Platt-st. N. hers, Lathes, Universal Chucks, Drills; Kase's, Von
Schmidt's and other Pumps Johnons
chines; Woodworth's, Daniel's and Lawner Man Man chines; Woodworth's, Daniel's and Law's Mlaning
machines; Dick's Presses, Punches and Shears; Mor-
ticing and ticing and Tennoning machines; Belting; machinery
oil, Beal's patent Cob and Corn mills; Burr mill and
Grindstones; Lead and Iron Pipe \&c. Letters to be noticed must be post-paid.
W OOD'S IMPR OVVED SHINGLE MACHINE the most valuable improvement, ever made in ithis
branch of labor-saving machinery. It has been branch of labor-saving machinery. It has been
thoroughly tested upon all kinds of timber and so great mas the favor with which this machine was
held at the last Fair of the American Institute that an unbought premium was amarded to it in prefer-
ence to any other on exhibition. Personn wishing
for for rights can address (post-paid) JAMES D. JOHN-
soN, Bridgeport, Ct.; $\begin{aligned} & \text { WM. WOOD, Westport. Ct. } \\ & \text { All letters will be promptly attended to. } \\ & 22 t \mathrm{tf}\end{aligned}$

THE EXCELSIOR Sand and Emery Papers. manufactured by an improved process; the paper is
made from the best Manilla hemp, and consequentmade from the best Manila hemp, and consequent-
ly is verystrong and lasting; the gritis is the sharp-
est $\ddagger$ and most enduring kind and is firmly attached to the paper with a remarkable evenness of surface; their freeness from ridges, stripes, and other imper-
fections, recommend them to the notice of consu-
mers These papers have been used by many of our Grst mechanics, and are pronounced superior to all
otherr. Every sheet is stamped WM. BARSONS,
and warranted. and warranted. Samples furinished at the office, No.
284 Parl street, New York. WM. B. PARSONS,
P. TING SCREWS- Patented May 8th, 1847. by once passing over the Iron. Also, Lead therews
for Lathes, Hoisting Screws, \&c. Als. and Taps, with or without machines, will meet with prompt attention by addressing Pi W. Wates, or Gates
\& McKnight, Chicago; Marshali, Bement \& Colly,
Philadelphia; Woodburn, Light \& Coo, Worcester, Mass. References-All the principal machine shops
in New York, Philadelphia, and Boston. 136 m .

## CHARLES F. MANN, FULTON IRCN WORKS,

 Below the Troy and Greenbush Railroad Depot,Troy, N. Y. The subscriber builds Stemm Engines
and Boilers of various patterns and sizes, from ihres horse power upward; plso, his Portable Steam En-
gine and Boiler combined, occupying little pace,
economical in fuel, safe, and easily managed ; Double gine and Boiler combined, occupping little space,
economical in fuel, safe, and easily nanaged ; Double
Action Lift and Force Pumps; Fixtures and Apparatus for Steam or Water Pumps; Fixtures and Machine Shops;
Shafting and Pulleys for Factories. Brass Castings

and Machinery made to order at short notice. Steam | $\begin{array}{l}\text { engines furnished cheaper than can be had else- } \\ \text { where, of the same quality. }\end{array}$ |
| :--- |
| 30tf |

JOHN W. GRIFFITHS-Ship Builder and Marine Architect, 658 Fourth s... N. Y., furnishes
models and draughts of all description of vessels,
with the computation of stability capacity, displacement, and necessary amount of impulsion. Propel. ling power located and prooprtionably, adapted to
the form of the vessel. Whether ailing or steaming.
Mr. G.also superintends the construction of Mr. G.also superintends the construction of vessels,
and may be consulted upon all subjects pertaining tothe various departments of the e eiencencor or practice
of ship building. Draughts forwarded by letter to
oll all parts of the world, and to any desired scale; all
letters must be post-paid.
$2718 *$
LMPORTANT TO IRON FOUNDRIES-The and 405 Cherry st., N. Y., will furnish the Aerosta tic can Blower at \$55, and with patent fitting at
$\$ 65$, that produce sufficient blast for the largest cu-
pola, melting 3 and 4 tons of iron pola, melting 3 and 4 tons of iron per hour ; taking,
lessthan one half the power of those now in urg,
that costfrom 880 to $\$ 100$ The wing. being only
about an inch in width planned about an inch in width (planned upon entirely new
and mathematical principles), produce double the
blast with half the power of other blowers. Warblast with half the powe of other blowers. War-
ranted in all cases, or they mày be returned and the
money refunded.
38 eowtf.
Mand afacture of patent wire ropes

 TRACY FALEE, RALROAD CAR MANUsenger, freight, and all other descriptions of railroad
cars and locomotive tenders made to order promptly.
26tf OGAN VAIL \& CO., No. 9 Gold street, New
York, itentsfor George Vaii \& Co, Speedwell
Iron Works, have constantly on hand Saw Nill and
Grist Mill Irons, Press Screws, Bogardus' HorseGrist Mill Irons, Press Screws, Bogardus' Horse-
Powers, and will take orderso of Machinery of any
kind, of iron and brass Portable Saw-mills and
Steam Engines, Saw Gum,ers of appoved and cheap

kind, \&c. Gearing, Sharting, large and small, cast | $\begin{array}{l}\text { Steam Engines, Saww } \\ \text { kind, \&c. Gearing, Sharting, large and small, cast } \\ \text { or of wrought iron. } \\ 11\end{array}$ |
| :--- |

$\mathbf{N}_{\text {pany, }}$ HAVEN Builders, New Haven, Cons., (successions to Scranton \& Parshleep) have, nown on hand
$\$ 25,000$ worth of Machinist's Tools, consisting of power planers, of Manchinist's Tools, consisting of
porom to 12 feet ; slide lathes
fom 6 to 18 feet long 3 size hand without shears; counter shafts, to fit all sizes and kinds of universal chuck gear cutting engines; driil
presses, index plates plates bolt cutters, and 3 size side
rests. The Co are also manufacturing steamengines rests. The Co are also manufacturing steam engines.
All of the above tools are of the bestouality, and are for sole at at 2mper per cent. less than any onther tools in
the market. Cuts and list of prices can be had by
by the market. Cuts and list of prices can be hat
addressing as above, post-paid. Warehouse No.
Platt st., Nem York, S. ©. HILLS, Agent N. H Man

