tions belonging to other countries, The annoyances of emall exchanges would be reduced, if not entirely removed, and the loss by brokerage be aroided.

## NEW PUBLICATIONS

The american House Carpenters' and Joiners' Arasstant. By Lucius D. Gould, Architect.
This is the title of a large quarto volume, in which the science and practice of building wooden structures is fully treated. It is illustrated with forty-four lithographic plates, and gives direc. cal and dratting instruments. Valuable tables of the relative strength and other properties of materials, and other usefulinfor mation make this a valuable vade mecum for the practical work man.
Atlantic Monthly.
The number for November is very excellent in every respect. The Publishers announce, for 1867, a Serial from Dr. O. W.Holmes, a series of articles from James Parton, and frequent papers from
.$J$ ames Russell Lowell, in addition to their regular contributors Ticknor \& Fields, Boston.
Address on Presenting to John Ericsson the Rumford Medal of the American Academy By E. N. Hosford, late Rumford Professor in Harvard University.
We have received from the author a copy of this pamphlet ẅhich is valuable as giving a resume of the inventions and val uable discoveries of this distinguished engineer. It states that Ericsson built the first successful propeller having all its machine ry below the water line-the Francis B. Ogden-which was reject ell by the Lords of the Admiralty of England, on the ground that "it would be impossible to steer a vessel where the propelling power was so near the rudder. Mr. Ericsson came to this coun try, bringing the machinery of the Robert FF. Stockton, and short ly after built for the Government the screw stesmer Princeton. Theidea of the monitor class of war vessels was conceived by Ericsson in 1854 , when he submitted to the Emperor Napoleon a plan tor such ships. Capt. Coles, of the English nevy, dates his first idea in 1850. Capt. Ericsson is well known for his hot air en-
Eines, but his crowning glory is the total change in war ships, inames, but his crowning glory is the total change in war ships, in asgurated by his celebrated Minitor
by Hurd \& Houghton, Boston, Mass
Report of The Secretary of tife Smitisonian
Institution, January, 1866.
This Report we shall take occasion to employ hereafter in the elucidation of several subjects upon which it briefly treats. In the meantime we may state that it contain
interest on many matters of importance.
Hubsey, Wells \& Co., of Pittsburgh, 'Pa.,
In reply to the ninth question of the U. S. Revenue Commission, have published a pamphlet consisting mainly of the certificates in evenness and excellent qualities. ectures on A
Prof. S. W. Johnson, Yale College.
A series of four lectures, illustrated with cuts, and the facts exemplified and made practical by experiments. The subject of chemistryas applied to the tilling of the soil is treated in this
pamphlet in Prof. Johnson's usual lucid and practical style. He pamphlet in Prof. Johnson's usual lucid and practical style. He has already done good service to the agriculturists of the country
by his lectures, occasional addresses, and publications on this subby his
ject.
ject
Curious Questions. By Rev. Henry A Brann, D.D.

This is a work on mental and moral philosophy, valuable to the mechanician and the natural philosopher merely, or, at least, mainly, because it refers incidentally to the operation of natura laws.
Woo
Woodward's Arcilitecture.
This neal volume is issued by Geo. E., and F. W. Woodward, at the oflice of the Horticulturist, 37 Park Row, New York. Many of our readers will recollect "Woodward's Country Homes," jresent volume is the first of an annual serics, intended to aid in the hutlding of farm houses, villas, barns, ice houses, and other structures pertaining to countrylife, as well as to direct in laying out grounds in gardens, orchards, walks, drives, etc. It is profusely lustrated with plans and designs, and formsanattractive and readable volume to those whodo not intend to follow it; directions, as well as a valuable manual to all who make the country thei home.

## Inventions Patented in England by Ameri

 cans.sondensed from the "Jcurnalof Commissionersof Patents." PROVISIONAL PROTECTION FOR SIX MONTHS. 2,296--Slide Valve for Steam Eneine.-William B. Robinson
Detroit, Mich, and Zoheth ${ }^{\text {a }}$ Durfee, Philadelphia, la. Sept. 7 2,298.-BEER AND ALe. $\rightarrow$ John Schneider, Williamsburgh, N. Y
Sept. 7 , 1866.
 9,316.-Manufacturing Leavier.-George V. Sheffield and
James F. Coburn, Hopkinton, Mass. Sept. 8, 1866. 2,319.-Seamless Merallic Tube.-William F. Brooks, New
Jork City. Sept. 10,1860 .
 2.358. - Horse. Rase. - Daniel G.Adelsberger, Emmittsburg, Ma.
nid Richard R. Rehes, and Charles J. Watts, both of Norwich
county of Norfolk, England. Sept. 14, 1866 . county of Norfols, England. Sept. 14, 1866
2,369.-Bratding Machine and Warp Requlator.-William
funstill, Paterson, N. J. Sept. 14, 1866. 2,463.-Printina Machine.-George Gordon, New York City
Sept. 19,1866 . 2.484.-Bronaing Machine.-John K. Lowe, Cleveland, Ohio.
sept. ${ }^{2}$. 1866 .



ISSUED FROM THE U. S. PATENT OFFICE for the week ending oct. 23, 1866.

> Reported oftcially for the Scientific American.

R¥P Pamphlets containing the Patent Laws and full particulars
ofthe mode of applying for Letters Patent, specifylig size of
ond

58,964.-Screw.-John Absterdam, New York City Iclaim the above-described wood screw, with the plain cylin
drical poltion betwen the point and the threaded portion, suib drical pol tion bet ween the point and the t
stantially as and for the purposes set forth.
58,965.-Gate.-Henry Adams, Seattle, Washing ton Ter.
Iclaim a qate hung to its post by means of a hinge, E, which passes throngh a vertical slot, I, and is held to the eate by annt 58,966.-Hoe.-Sherman W. Adams, Wethersfield Conn.
First, I claim the combination of the blade, a, and handle, $b$
when 0 n nd described.
Second, The
58,967.-F Jolnnstown, Pa .
First, I claim the combination of the inclined or diamond-shaped knife sash, connecting rod or bar,, , and eccentric, $F$, with each
other, and with the driving haft, $C$, cutter rame,
substand box, A, substantially as herein shown and described.
Second, The combination of the jaws, $P$ and $S$, bent levers, $O$ Second, The combination of the jaws, P and S, bent levers,
and R, and pivoted cam lever. N, with each other and with the
cutter box, A, support, M, and eccentric, F, substantially as here in shownand described, and for the purpose setforth
58,968.-Mechanism for Operating the Har
ness of Looms.-William R. Andrews, Mystic
River, Conn.
I claim the above specifed new and useful harness-operating
mechanism or combination, consisting of the tri-anned lever, $D$, mechanism or combination, consisting of the tri-armed lever,,
the two cams, EF, the gears, cc, and racks G H, the sping,
and the rack-elevating mechanism, the whole being arranged to and the rack-elevating mechanism, the whole bcing arranged to
gethe, nd with a pattern chain, and its actuating mechanism,
substantially in manner and so as to operate as explained. 58,969. - Instrument for Extrac'ing Corks
from Bottles.-J. T. Ashley, Brooklyn, N. Y. I claind the slide, $F$, in combination with the tongs, A, when
arranged thereon, so as to operate substantially in the manner and for the purpose described.
8,970.-Apparatus for Moving Buildings.Egbert H. Avery, Belvidere, Ill.
I claim the ouide keys, D, in combination with the trineiss, $C^{\prime} \mathrm{O}$
B, substantially as set forth. 58,971.-Butter Worker and Packer.-Charles
F. Barager, Candor, N. Y.
 , and packer, J , and the whole operating substantially as de
58,972.-Pump.-A. B. Barlow, Ripon, Wis.
I claim the method substantially as above described of packing
the lower joints of the cylinder and said chamber ly mean 3 of a botton piece, I, and annular fance or cap, N, and the packing N', substantially as described.
58,973.-Corn Plow.-Peter Barnhart, Chillicothe Ohio.
I claim the ad justable fender, $F$, and beam, A, in combination
with the standards, $B$ B, for the purposes and substantially as de
scribed 58,974
8,974.-Straw Cu'tter.-John W. Bartlett, Harmar, Ohio. Antedated October $12,1866$.
First, I claim the knife, c, oscillating arm, D, and standard and Wuh two cranks, knife, C, osciliating arm, D, and standard and
guide, F substantialy at set forth.
Secon Second, I claim the combination of the crank, , attached to the
end of the ty w eeel shaft, the lever P, nd the bent pawwl lever,
H, with the ratchet wheel and feed rollers, substantaally as set
forth. Third, I claim the pawl holder and guide, I, constructed and Fourth, I craim the hinged board, $O$ ', with its shaft, $P$ ', in com
bination with the bent spring, $S^{\prime}$, substantially as and for the purpose set forth
58,975.-Composition for Roofing.-F. Bearse
and G. E. Hopkins, Barnstable, Mass.
We claim therefor the composition as made of the acid and
other ingredients, substantially as herelibefore set forth. 58,976.-CHURN.- M. Bratt, Maysville, Ky First, I claim the combination oithe hollow tube, E, having th having a aralve, d, at itsupner end, and withthe bottom, a, or'the
courn, A, substantally as here'n described ancl for the purpose set forth. The com bination of the g uide rod or plunger, F, with and with the bottom, a, of the churn, A, substantially as herein
aescribed and for the purpose setforth. 58,977.-Grinding Mili.-Charles P. Benoit, De troit, Micl.
Iclainn the machine for crushing grain consisting of the long
tudinally groovedroller tudinaly groored roller, B, and the transv erses y groved cylin
der, , arranged to operate substintially as described for the pur
pose specifict 58,978.-Creasing, Slicking, and Skiving Leath Er.-C. C. Bellows, New Ipswich, N. H.

second, The plate, J, having olivieing knives, d, attached to or
Sor
formed on it, and applied to the upper roller, C, by means of the
bers or clamp frame, substantlanty as and for the purpose de-
scipe
Third, The laterally-adjustable creasing wheel, $F$, on the uppe
58,979.-Piano Stool.-Joshua Briggs, Peterboro N. H.
thade with a wood serew cut unan its outersurfice for sccuring it
permancoty to the pllisr, substantially as descrite
I also
 the bolt at the bottom of said tube, substantially as set forth.
58,980.-S'TEAM-ENGINE SLIDE Valve.-Richard C. Bristol, St. Clair, Mich.

I claim, in connection with a slide valve, the withindescribed
arrangenment of rollers, C, mounted concentricaly upon the eross
bars, C, and betw een the iongitudinal bars, C2C 2 and arranged bars, c, and betw een the longitudinal bars, ca ch, and arranged
to operate relatively to the valve, and to the cylinder face, and
to the steam chest, substantially as and for the purposes helein to the stea
specifted.
58,981.-Amalgamator.-Edmund Browh, Chica-
 tures and First, The revolving and stationary shaft, with aper
Second, The series of ecing the quartz out into the lead. Second, The series of combs attached to the revol Ving shaftand
sides of the kettle, the who coinbined and arrange d for the pur 58,982.-Window Screen:-Edward Bucklin, Jr.
and Sedgwịck A. Sutton, North Providence, R. I.

We claim attaching the screen directly to two supporting rails,
and $\mathrm{D}^{\prime}$ in such manner that the width of the screen may be Dand D' in such manner that the width of the screen may be
increased or diminished tn the same proportion as the lengtlis of
he rails, as and for the purpoes descrijed. the rails, as and for the purpose descriljed.
58,983 .-Farm Gate.-John A. Cheatham, Nash ville, Tenn.
I claim, First, The combination of the lever or leyers, A A, with
the vertcal spindte, E, controllitg the gate and its atch, with the cam shaped piece, $\mathbf{t}$, or its equivalent, substantially as and for the Second. The combination of the lever or levers, A A, and the
spindle, A with the upper disk, L, the trigger, K , and latch, J substantially as and for the purpose described.
58,984.-Ladder.-a. Ckertizza, New York City. I claim the combination of sides so sloping that the narrow end
of one sectional ladder fts within the wider end of any other,
with the slota, dand ac, and thc bars, b and b' b', substan
tially as tially a 58,985.-Fan Blower.-Patrick Clark, Rahway, N. J.

I clain, First, The diaphragms, C C , when used in combination with a compound fan blower.
Second, The fan wheel, F Fhen constructed with fans or
vanes of the form and arrangement with respect to each other as
Third, Attaching each fan or vane at its ends to two adjacent Fourth, The led leather packing, D D, when combined with the
diaphragms, C C, as described. 58,986.-Corn Shelider.-William Colwell. Chillicothe, Ill.
I claim, in combination with the cone, B, shaft, $\mathbf{C}$, and hopper,
F, the fan, N , andelevator, T, for the purposes and substantially
as herein set forth. 58,987.-Safety Valve.-D. G. Coppin and G. H Clemens, Cincinnati, Ohio.
We claim, First, The Valve, C, and tubs, m, constructed as abe described and ior the purpose set for th.
Second, The valve, C, , vevc, , weights, D and D', arranged as
 58,988.-Corn Planter.-W. H. Cox, Virden, Ill. Firs, I claim the perforated, horizontal, revolving plates, mm m,
in the hoppers, D D, tor feeding and drapping the trains or corn
evenly in combination therew thin and with the bever gear whecls.
 substantially as and for the purposes herein described.
Second, I claim the thimble, $a$, within the hub of the driving Wheel C, for carrying the pulloy, b, in combination therewith,
and with the stationary axle, $B$, constructed and operating sub:
alan
 the axle, B, for supporing the hopers, D D, and ranging nond
lowering at pleasure with ine lever, $F$, substantially as herein described.
Fourt, I claim the slide piece, $G$, with the push and pull pawl,
O${ }^{\prime}$, for working the seed-ro pping a pparatus by hand when ad. justed for planing corn in hills, in combination with the revolv
ing perforated plates mim to which the impart an intermiteent 58,989. ,989.-Machine for Stipping the Top Flats of Carding Engines.-S. L. Crockett and Benjamin S. Mills, Lowell, Mass
We claim the employment of the lifting and replacing cam
formed substantially asherein set forth and shown and urrangerl
to operate in the manner and to operate in the manner and for the purpose specitiod.
And in combination with the ifftig and replacing cau, formed
and made to operate as he rein set forth, the two pins, 1 and 2 in And in combination with rie irtung and replacing cam, formed
and made to operate as herein set forth, the two pons, 1 and 2 , in
the slide, h, acted upon by the cam, in the manner and for th?
58,990.-Hardening Springs.-George G. Crowell
Lime Rock, Conn.
I claime employment of glue, or equivalent giutinons anima
matter, either alone or in coubination with other material as natder, elther alone or in coubination with other material, as a
hardening compound, when employed substantially in the man 58,991 -Table and Holder
58,991.-Table and Holder for Shearing Sherp I claim the table, B arms, C C', Dawl
I claim the table, B, arms, C C', pawl and ratchet, a b, and
bitackle, D, constructed and arranged as and for the purpose speci-
tied. 58,992.-Knife Carrier.-Porter E. Cummings, Sanford, Me.
I claing the improved knife carricr, in ade substantially as de
scribed, viz: with the knife-shank socket, and the rebate arranged scribed, viz: with the Enife-shank socket, and the rebate arranged
in it as betorth, the eaid carrier bcing provide with a set scre w,
or equivalent means oi fixing the linie shank in the socket. 58,993.-Hand Seed Sower.-Obed Dann, Janes ville, W is.
I claim, First, The combination of the hox, A, and side, E, when
construcled, arranged, and used substantially as and for the purpose sct forth.
Second, The combination of the box, A, cap, B, and handle, $O$
 C, when constructed, arranged, and used substantinlly as and fo
the purpose set forth. 58,994.-Bed Bottom.-Garret B. Davis and Chas B. Davis, Freeport, Ill.

We claim the strengthening rods or girders, E E, tn combina
tion wtth the bow-shaped cross pieces, CC, and elastic bands, $D$,
ubstantially as specified. 58,995.-Table.-Ernest Dinter, Boston, Mass. I claim the improved table stand as having two parts, a D , con-
strieted with receiving slots, arcanged in them so as to
hem to be applied together, substantially as set forth. 58,996.-Steam-engine Governor.-E. C. El monds, Buffalo, N. Y.
 producing an intermittent motion to the valve-operating mechan-
ism, and antilly in the mannerset forth,
Talso claim, in combination with the above, the screw vatve

