30, 8:7.-James Martin, of Toronto, Canada, assignor to himself and J. E. Thomson, of Bufficlo, N. Y.
for an Improvement fur Superheating Stean for Locomotive Engines:
I clain, fist, The combination and arrangement of the flues, $R$,
wth the steam ohumbert, $A$, for the purposces and substantially as


30,853.-H. T.Pratt, of Fitchburg, Mass., assignor to himsclf, A. Davis and C. E. Pratt, of same place and H. C. Crehore and C. T. Rogers, of New and H. C. Crehore and C. To. Rogers, of


[The object of this invention is to obtain a ehalr that may be fold d compactly and be provided with a cane or other stiff bottom There are chairs constructed to fold quite compactly, but these chairs have a flaxible seat conlposed of webbing, carpet, or other exthe rabric. By this invenion, a chanr may be folded equally ampact as those provided with fexible bothoms, and they hav in any of the known wasa.]
30, 859.-Henry Warren (assignor to Henry Beebe), o
Hoboken, N. J., for an Improved Foot Scraper and Brush:
I chima the arrangemant of the laterally- $\operatorname{silling}$, curved brughes, and fixed buthes, C C, as and for the purposes allown and de
scribed.
[This invention consitts in a novel form and arrangement of rushes for the heel, toe, and both sides of the elhoes, in combina tlon with scraping blades for the soles of the shoes.]
30,860.-John Wind (assignor to himself and T. I
Bottow), of Thomasville, Ga., for an Improve
mont in Machines for Husking and Shelling Corn
 purposes घpecified.

## re-issues.

H. A. Burr, of New York City. assignee, through mesne assignments, of H. A. Wells, deceased, for an Improvewent in Manufacturing Hat Bodies Patented 1 pril 25, 184(i. Re-issued October 7. 1856. Extended for 7 years from and after April 25, 1860, and again re-isucd December 4, 1860:
Iclaim tho mode of operi,tion, substantinly as herein described, of forming bats of fur fibers of the requited varying thickness from
the bum to the tip, Which mode or operation results from the com


 mecluanism, and the lower deflictor, substantially as dencribed, $t$ rogulate the deyosit of the fur fibers on the lower part of the former
an 1 Iestribe
Inson olaim the combination of the rotating picking mechanism I also olaim the combination of the rotating picking mechanism
or the equivalent thereef, the pervious former, with its exhausting or the equivalent thereof, the pervious former, with its exhausting
mech:nimm and the lower deflector, substantially as described, to mechimain and the lower dha deposit of the fur fibers on the tip of the pervious form
regulater er, Aus hef frith.
chanism, the I pervioum the combination of the rotating picking me

 suring ita ploner dep
required, as set forth.
H. A. Burr, of New York City, nssignce, through mesne assiguments, of H. A. Wells, deceased, for an Improvement in Machinery for Making Ha Bodies. Patented April 25, 1846. Rc-issued September 30, 1856. Extended for 7 years from and after April 25, 1860, and again re-issued Dccember 4, 1860

 sure of she surrounding ait 2y they are deposited and then hardening


Joseph Jordan, Jr., and Heury Keney, of Hartford, Conn., and Grant, Warren \& Co., of Boston, Mass., assignees of Joseph Jordan, Jr., and Thomas Enstice, of said Hartford, for an Improvemont in Machines for Grinding and Sizing Paper Pulp. Patented May 18, 1858 :
What we claim as our im proved machine for the manufacture and
 size, and the eduction of bothn arranged with reference to the axis
and ends of tle krinder substantiall in manner and 80 as to onerate to redtuce the reass to pulpand mix the sizing therewith, as hereinWe also clium the introduction of the sizing into the grinder cise and directly between the reducing surf fees when eepployed as as
affed in tle grinding of pulp or material used in miking paper.
Jesse Reed, of Marshfield, Mass., assignor to Catharine M. Hunt, of Boston, Mass., for an Improvement in Steering Apparatuses. Patented March 6, 1855:
I clnim the arrangement and combination of the adjustable puide
and gaurd rails, MM, with the screw sllaft or its mecthanical equival-

by means substantially as describent, for euabing the the sedancheons
 down under the action of the rudder, as gpecified.

## additional improvemients.

William Sims, of Nei York City, for an Improvement in Refriperators. Patented February 8, 1859: C, and fan, E, whien applipd to a refrigerator, to operate espentianty ais and for whe wurpone set forth.
\#trbe object of tlis invention is to augment $\sigma$ increase a circulation of air through the refrigerator, and thereby render the same more efficient than hitheito.J

Asbury Wilkinson, of Shelbyville, Ind., for an Im proved Washing Machine. Patented September 20, 1859:

 icc.....tetch, F, ratcl
forth and described.
designs.
Zebulon Hunt, of Mudson, N. Y., for a Design for a Stove.
C. J. Woolson, of Cleveland, Ohio, for a Design for Doors of Cooking Stoves
C. J. Woolson, of Cleveland, Ohio, for a Design for a Stove Plate.
Isaac De Zouche (assignor to Bridge, Beach \& Co.), of St. Louis, Mo., for a Design for Stoves.
C. T. Meyer, of Boston, Mass., assignor to Alden Sampson, of Manchester, Maine, for a Design fur Floor Cloths.

## $4{ }^{4}+x^{4}$

x. P., of N. B.-Hollow grate bars are now being em ployed in several locomotives, and no dificulty is experienced, we have been told, in maintaining the circulation in them. You will find theillustration of hollow grate bars for furnaces on page 504 Vol. III. (old series), of the Sorientific Ammbioan.
P. B. C., of Va.-"Morfitt on the Art of Tanning" was published by H. C. Baird, of Pliludelphia, in 1852. It does not contain the latest American patents.
J. B., of Ill.-Parchment requires to have all the grease extracted from it, tor the purpose of writing. It is there fore steeped in milk of lime during its preparation, to effect thi object. The bright red color on morucco is dyed with cochineal, little muriate of tin and cream of tartar. Carmino dirsoived aqua ammonia makes a beautiful red on leathe
O. C. S., of N. Y.-If $\mathbf{B}$ knows that $A$ was a previous purchaser, then B has no claim upon A's territory. In vieiv of sucl knowled ge, the fact of the non-recording of $A$ 's assignments give B noright to $\Delta$ derritory. The papers have been forwarded to W. D.
H. B. M., of N. Y.-The pressure on the bottom of vertical pipe one inch in diameter and 23 feet long, filled with water, will be 8.5 Ds. A 2 inch column of water will exert precise iy four times the pressure of a 1 -inch column, both being of the same hight. The pressure of the atmosphere on the surface of 1 -inch circle is 11.78 lbs , which, added to the presaure of the water in the 1 .inch pipe, makes 20.28 D.s. A brick wall will be preservel from the effectsof the heat of a fite, when the tame is kept well wet all the time during the fire.
J. H. N., of Tenn. - You are correct in stating that the cause of difficulty in telegraphing during wat weather is owing to (those coated with guttn-percha) are not patentable as a preventive of the evil, because such conductors bave been frequently used already. You are mistaken in supposing water to be the bett con ductor of electricits. Pure rain water is a vers poor conductor it is to copper wire as 1 to 40,653,000, aceording to Mr. Farmer, of Borton, who has made many experiments on the resitance substances to the electric fluid.
S. \& Co., of Conn. - You can obtain all kinds of steel from Sanderson, No. 16 Cliff-street, this city-a Sheffield house. F. A. W., of Ky.-There will be no difference in th quality of corn for feeding hogs, whether it be first ground and then boiled, or whetherit is first boiled and then erushed between rollers. The employment of $n$ tank with a false bottom, placed above a steaming kettle, for cooking food for animals, is an old and useful arrangement, and should be more generally used by farmers. You cannot obtain a pateat for your arrangement of boiler and crushing rollers, as the syetem is old
G. H., of N. Y.-The best varnish known to us for coating bright iron, to prevent it from rusting, is clear copal ; it contains oil and is not liable tn crack. The metal cadminm is rare but may be obtained in this cits. Sheet copper cannot be welded into a mase, like iron. We are much obliged to you for your kind nessin sending us a club of subscribera
D. N. T., of Ga.-Instend of "awaiting the turn of events," as you term It, we think your apprehensions should stimunate go to make an apple tor a pacen not fear but that pe tiglt of por the inr bur hide mill Ther the hivisence
 the por a
 thanit in being in the frat case, s500, in the next 9300 , wad in the hat onty being, ht he hane, swo,
 ed, all are on an equal footing. H. C., of N. C.-Our new volume will commence in two weeks, We are glacl to know that you are forming a club in
your town. In a few days we ohall issue a n edition of the Patent laws and information uron all subjects connected therewith. Inventors, patentses and assignees will find it an indispensable work for their use.
S. H., of G:i.-You can procure such brass castings as ou want, of George Pollock, of this city. We can reconmend S. C. Inills, No. 12 Platt street, this city, as a reliable dealer in machinery.
A. 'P., of N. Y.-The plan of steaming wood to season it has been long practiced in this country. By calling at this office, sou will be able to learn all you want to know about our patent hars and about he pateatabinty of sour iaveatione.
H., of Pa .-You ask:-"Would a shaft support a greater weight, hung on the middle, when rapidly than when slowly revolving!" Aue wer.-"It would not."
N. T., of N. J.-There is no single work known to us whick contains illustrations of all kinde of machinery. Ure's Dictionary of Arts and Manufactures will, perhape, come neareest the kind of book which you want
J. L., of Pa.-Your article on Pittsburgh and its steel
manufactures has been received nad will meet with attention.
P. J. K., of Wis.-It is well known, according to the discovery of Sir Humphrey Davy, that a pieee of zinc eoldered to a piece of iron prevente the latter from rusting. The zinc corrodes, and in doing so establishes an electric action which protects the iron, as you have described. You could not obtain a patent for such a discovery.
c. C., of Ohio.-We do not think there is any chance for a patent on sour grain separator. The same device is covered by Sanders' patent. We advise yon to make a model of your craindryer and send it to us, as we think it contains patentable D. F., of N. Y.-We are afraid that india-rubber balls would not answer for the valves of pumps in tanneries. The taning hquore would be liable to affect the india-rubber by coating its eurface. Some of the rubber eompanies, however, micht agree to make suitablo valves for you.
W. O. H., of Pa.-We do not know of any better mode of pulverizing rosin than to pound it in a mortarand ecreen It through a ieve. The blows should be light, so as not to make the rosin stick to the crusher. In erinding it between stones, the atonesshould be light and have a rapid rotation.

## MONEY RECEIVED

At the Scientific American Office on account of Patent Oflice business, for the week ending Saturdar, Dec. 8, 1860:-
J. C. G., of Cal., $\$ 272$; E. M., of N. Y., \&45; H. H. R., of N. Y., $\$ 35$; W. W. of Ala., $\$ 30 ;$ H. II., of Pa.., $\$ 30$ : A. F. F., of V., $\$ 30 ;$ W. R., of Mo., $\$ 25 ;$ H. V.. of Texas, $\$ 30$ : A. A., of N. Y ., E30; B. \& C., of Ohio, $\$ 30$; F. M. B., of Wis., $\$ 30$; E. \& H., of N J., $\$ 25$; T. S. W., of Pa., $\$ 55$; A. J. G.. of Mass., $\$ \$ 0$, W. W. H.,
of N. Y., $\$ 30$; P. P. S., of N. J., $\$ 55$ G. J. C., of V., $\$ 25$; O. S ., of Conn., $\$ 30 ;$ I. W., of Mase,, $\$ 62$; J. W. F., of Pa,, $\$ 35 ; \mathrm{L}$. J. H. P G., of Pa., \$50; E. L. G., of Conn., \$30; W. F. G., of N. $\boldsymbol{Y}$., $\$ 30$; N.MeC., of N. Y., $\$ 12$; A.R., of N. Y., $\$ 20$; A. F., of III., $\$ 32$; J. R. B., of R. I., $\$ 25$; B. \& M., of III., $\$ 25$; C. T., of V..

 F., of N. Y., $\$ 30$; W. Y., of Ind., $\$ 2 \overline{5}$; O. C. T., of Pan, $\$ 30$ :E. C. of Mass., $\$ .375$; D. C. S., of N. Y., $\$ 30$; C. A., of '1ll., $\$ 25$; F. B., of Mase., \$32; J. T. S., of Wis., $\$ 30$; G.H.J. C., of N. J., $\$ 30$; E. B. B., of N. Y., \$22; J. H. D., of Mich., $\$ 25$; J. E., of C̛al., \$10; C S. H., of N. Y., S 85 ; R. B. B., of Pa., \&25; P. R., of Ill., $\$ 15$; C. H. S., of N. Y., \$255.

Specifications, drawings and models belonging to paries with the following initials have been forwarded to the Paten Hfice during the week ending Saturday, Dec. 8, 1860 :-
It A. B., of France; W. W., of Ala.; H. H. R., of N. Y.; W. W. H., of N. Y.; J. W. G., of Pa.; J. N. P., of N. Y.: T. B J. of IL.; J. H., of England; S. H. D., of Mich.; T. J. F., of Ill.; J R. B., of R. I.; C. C., of N. Y.; A. G. M.. of N. Y.; E. M., of
N. Y.; F. B. P., of Mo.; T. K., of N. Y.; W.R., of Mo., N. McC., of N. Y.; J. J. D., of N. Y.; S. \&. J. H. B., of Mo.; C. R., of
France; E. B. B., of N. Y.; B. \& M., of Ill.; P. P. S., of N. Prance; E. B. B., of N. Y.; B. \& M., of Ill.; P. P. S., of N. J.;
F. B., of Mass,; T. P. S., of N. Y.: I. W., of Mass.; W. H. S., of
 A. F. F., of V..; H. \& M., of Ohio; C. T., of Va.; C. s. I., of N. Y.; G. C., of Maine ; P. R., of In.

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iterature, art and fashion; prof ueely
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Atlantic Monthly. By Ticknor \& Field. Boston. The numbrr for December is full of able contributioas. This mag

Agriculturr must not be overlooked. Our neiphbor, Char les V. Mapen, has iespind a \&nlendidily illustrated ratalngne of
an sorts of a nericnlturnu implements. It is n work of interest to all all sorta of nericaltury imphomentr. It
who are engaged in this noble pursuit.
Central Park. C. M. Saxton Barker \& Co., Park-

 bonk. He has ales
alwass on band.

