FOREIGN SUMMARY-METALS AND MARKETS.
An American-Wm. H. Ward, of Auburn, N. Y., the inventer of the bullet-machinery described on page 36, Vol. XII., Scientific American--has been exhibiting a new system of naval signals before the British Admiralty Board. He has been highly complimented for the completencss of the invention, and it is believed that it will be adopted for the British navy.
The ship-building business in England is very active at present, both in the government and private dockyards.

The Cunard Company have sold their line of iron propellers, which had been employed for carrying heavy freight between England and America, to the Spanish government. They are to be replaced by vessels of a larger class. This company also intends to add another large ship, called the Scotia, to their mail line. It will be made of iron, and of greater capacity than the Persia. It is not yet decided whether it shall be propelled by a screw or paddle-wheels. It is to be desired that the screw may be adopted, in order to test its qualities fairly In a first-class ship. Hitherto, all screw steamers have been furnished with engines of much less power in proportion to their tunnage than paddle-wheel steamers.
A colossal statue of Hugh Miller, the stone-mason, geologist and editor, is about to be erected in his native place, Cromarty, Scotland. A new statue of John Hunter, the celebrated surgeon and anatomist, is also proposed to be erected in London. These are honorable memorials to the memory of scientific men.

A meeting of scientific gentlemen was lately held at North Woolwich, for the purpose of discussing the merits of india-rubber as an insulating substance for telegraph cables. Mr. West stated that a telegraph-wire ińsulated with india-rubber had been in use accoss the harbor of Portsmouth siase 1846, and that its insulation was still perfect. It was also stated that gutta-percha was a failure for telegraph-wires on land and in the sea; that it was not such a good material as india-rubber for insulation, but it was easier to apply it to the wires.
There was a great trial at Ipswich, July 6, with Fowle 's steam plow and Smith's steam cultuvator. The former plows ap the soil in furrows, according to the common method, the latter smashes up the soil, and is a "rotary." It is drawn by a windlass, worked by a band attached to the driving-wheel of a small, highpressure portable engine. Its cost, with ropes and all the apparatus, is only about $\$ 1,050$. It was generally admitted that steam-plowing was becoming a necessity, just as much as reaping by machinery.

Towing by small steamers has justb een introduced on the Leeds and Liverpool Canial, four steam-tugs being employed for this purpose. Each boat is 60 feet long, 8 feet beam, has a tubular boiler, engines of 12 horsepower, and a screw-propeller driven at the rate of 180 revolutions per minute. These boats are solely employed for towing on the canal, and they do the work for 25 par cent. less than has been charged for horsehaulage.

## prices of fokeign metals, adgust 4.



CoAl_Foreign cannel, $\$ 9$; Anthracite, from $\$ 4.50, \$ 4.75$, to $\$ 5$ Coal_Foreign cannel, $\$ 9$; Anthracite,
Cordage.-Manilla, $8 \%$ c. a $8 \% \mathrm{c}$. per 1 lb .
Cormon.-The sales were more favorable this week, still the prices have somewhat fluctuated. Good ordinary Upland, Florida and MoCorect; Texas, 10 c . , Midding fair rrom $\$ 13 . \%$. to 14 c .
Cometal Ler Superior ingots at 230 perlb for cash; phes of this m
26c.
FLo
Flour. - There has been a slight upward tendency of prices. Southern flour has been buoyant, but on the whole, between one day and another, the market may be set down as fluctuating. Genesee $\$ 4.15$ up to $\$ 6$.
$\$ 4.15$ up to $\$ 6$.
Hexp.-American undressed, $\$ 140$ a $\$ 150$; dressed from $\$ 190$ a $\$ 210$. Jute, $\$ 95$ a $\$ 90$. Italian scarce. Russian clean, $\$ 210$ a $\$ 215$. \$210. Jute, $\$ 95$ a $\$ 90$. Ita
Manilla $6 / 2$ c. a $63 \%$ c. per lb.
Manilla 6 6 c. a 63 c. per lb .
INDIA-RUBBER.-Para, fine, 57 צc. a 60 c . per lb .: East India, 37 c .
Indigo.-Bengal, $\$ 1$ a $\$ 1.65$ per lb.; Manilla, good to prime, 55 c . a \$1.10: Guatemala, $\$ 1.05$ a $\$ 1.25$.
Iron - Anthracite pig, $\$ 23$ a $\$ 24$ per tun; Scotch, $\$ 24$ to $\$ 24.50$; Swedish bar, ordinary sizes, $\$ 88$ a $\$ 90$; English refined, $\$ 53$ a $\$ 54.50$; English common, $\$ 43$ a $\$ 45$. Russian sheet, first quality, $11 \% \mathrm{zc}$. a 12 c . per lb.; English, single, double and treble, $8^{3}$ \%c. a $41 / \mathrm{c}$.
LEAD.-Galenan $\$ 5.80$ per 100 lbs ; German and English refined, $\$ 5.70$; bar, sheet and pipe, from $63 / \mathrm{cc}$. to 7 c .
Leatarr-Oak elaughter, light, 35 c . a 37 c . per lb.; Oak, heavy, æc a 35 c .; Oak, crop, 40 c . a 42 c .; Hemlock, middle, $25^{2} 8 \mathrm{c}$. a 263 zo .: Hemloek, light, 25c. a 25\%c. , Hemlock, heavy, 23\%c. a 24\%sc; Patent enameled, 16c. a 17 c . per foot, light. Sheep, morocco finish, $\$ 7.50$ a $\$ 8.50$ per dozen. Calf-skins, oak, 62 c . a 65 c .; Hemlock, 6 cc . a 6 б̆c; Belting, oak, æc. a 34 c . ; Hemlock, 25 c . a 31 c .
Nais.-Cut are quiet but steadyat 3 c . a $33 / \mathrm{c}$ c. per lb. American clinch sell in lote, an wanted, at 5c. a 6 c .; wrought foreign, 3 c. a 31 cc . American horseshoe, $141 / \mathrm{c}$.
Ona-Linseed, city made, 60c. per gallon', whale, bleached spring, 54 c . a 56 c .; sperm, crude, $\$ 1.22$ a $\$ 1.27$; sperm, unbleached spring, $\$ 135$; lard oil, No. 1 winteric85, a 90 c.; extra refined rosin, 30c. a 40c.; machinery, 59c. a 100 c .; camphene, 45c. a 47c.; coal, refined, from $\$ 1.12$ a $\$ 1.50$.
Resin.-Common, $\$ 1.77 \%$ per 810 lbs , bbl.; No. 2, \&c., $\$ 1.80 \mathrm{a}$ $\$ 4.50$ a $\$ 6.25$.
Speltig- 5 \% $\%$ c. per lb.
Stegc.-English cast, 14c. a 16c. per lb.; German, 7c. a 10c.; Amrican spring, 5 c . a 5 \% c.; American blister, $4 \% \mathrm{sc}$. a $5 \% / 3 \mathrm{c}$
Tallow.-American prime, $10 \% \mathrm{c}$, to 11 c ., per lb .
Tin.-Banca, 33c. a 3418c.; Straits, 32c. ; plates, $\$ 7.50$ a $\$ 9.831 / \mathrm{z}$ per box.
Turpentine,-Crude, $\$ 362 / \mathrm{z}$ per 280 lbs ; spirits, turpentine, 44/8c. per gallon.
Znsc.-Sheeta, 7 78 a 73/4 per lb.
The foregoing rates indicate the state of the New York raarkets up to Aug. 18.
There has been a slight decline in cotton; also, in tin. But it is believed the prices of both will yet rise somewhat higher Great efforts now being made in England to increase the cultipation of cotton in Africa, so as to obtain it at lower prices than have ruled in the market for several years. The demand for cotton is greater than the supply, and this would be increased were the prices lowered. Wher it is remembered that the prices of cotton are not over one-half what they were half a century agb, the improvements in its cultivation since then must have been neither "few nor sar between."
The market for most qualities of wool is very quiet. The holders are not anxious to sell at present prices, and much caution is exercised in buying, thus showing a want of confidence in the existing state of things. Fine Saxony fleeces sells at 56c. to 60c. per lb., American merino at $35 \mathrm{c} ., 40 \mathrm{c}$. and 45 c ; Californıa fine at 25 c . to 30c., unwashed, and common South American, 10c. to 13c., unwashed.
The peaches are a small crop this season, but some very beautiful lots of Jerseys have sold at $\$ 1$ to $\$ 1.25$ per basket, and Delawares at $\$ 1.50$ and $\$ 2$. The peacb crop has been growing smaller every season for some years past; and where this tree once flourished in several counties in New Jersey, it is now almost extinct.
The coal trade of Pittsburg amounted last year to $54,367,632$ bushels, making a total of $2,064,594$ tuns. Two-thirds of this amount were exported by boats and railroads to other sections.
The American Horse Nail Company, of Providence, commenced the manufacture of horse and ox shoe nails about six years since, by patent maekines, which work with great speed and accuracy, producing from each, with the labor of a man and boy, as many nails as 50 men can make by hand per day. They are formed by pressing the iron into proper shape between dies while at a welding heat.
According to a statement of Mr. E. Howe, the number of sewing-machines sold in this city du ing the past year, ending April 30, was 37,442 . The increase has been over 100 per cent. in the six months ending October, 1858, and it is believed that this increase will be more than doubled duxing the next tweive mulation mak.


ISSUED FROM THE UNITED STATES PATENT OFFICE forthe were ending auguer 16, 1859.
[Reported officially for the sotenturio Ambrions.]
** Pamphlets gi ing full parisenlars of the mode of applying for
patents, gize of model ratired and much other infopmation use-
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ful to inventor, may be tad gratis by addressing M
Publishers of the SoIENTIFIC AngrioAN, New York.
25,083.-G. L. Bailey, of Portlánd, Me., for Improved Machines for Punching Holes in Leather: I claim, firsti; The arrangement and combination of the bed-piece,
L , lever, A, and hollow cutter, C , provided with'a standard, D , conL, lever, A, and hollow cutter, C , provided with a standard, D , con-
necting rod, E , and treadle, H , as and for the purpose set forth and
described. I claim the arrangement, as set forth, of the circular ad.
jecond,
justable cutter-bed. D , in such a relative position to the cutter, C , as juxtable cutter-bed, D , in such a relative position to the circular ad-
cutter, C , as
a accomplish the object specified. 5,5
25,084.-Wm. T. Barnes, of Buffalo, N. Y., for an provement in Sewing Machines:
I claim. first, Working the needles vertically and alternately in the
same hole in the bed plate, substantially in the manner and for the purpose set forth.
fingeran, I 6 , spring, 18 , and atop, 20 , substantially in the manner speci-
 Th rd, I claim the arrangement of lever, 18 , slide, 11 , and lever, 12 ,
When gaid lever, 12 , is provded with pointa, is pivotedto slide, 11 ,
and made to operate substantially in the manner described.
 bar set and forth.
as
25,085. - Mellen Battel, of Albany, N. Y., for an Improvement in Steam Generators
I claim the combination with the tubee, C C, extending downward flue, and upward through the water above the tuberheet, of the inger
tubes, D , applied in the manner described for the purpose set forth.
25,086.-T. D. Berry, of Lowell, Mass., for an 1 m proved Clothes Rack:
I claim the construction of my clothes rack, with divided center, or
of two seetions, each to consist of center-piece, $A$, slate, $F$, braces, $H$, of two seetions, each to consist of center-piece, A, slata, F, braces, H,
and circumferential piecea, E, united to each other as descibed, when
the se two sections are com hind the se two sections are com bined with each other by plates. C, so
hinged as to allow the rack to be folded and opened. both vertically
and circumferentially, in the manner described, to obtain by this di-
vided center and
vided center a rack suitable for use, when, folded, closely and cir-
25,087.-E. Booth, of Troy, N. Y., for an Improvement
in Sewing Machines: in Sewing Machines:
I claim, first, The combligetion of an eye-pointed vibrating lever,
and a looper, operatine togotiesubstantaily in the manner and for
 motion given to it by the rol lers, $\mathrm{t} t$, entirely, and as con tradistin.
guished $\begin{aligned} & \text { from the }\end{aligned}$ use of a sping of any kind, by which meang $I$ en. guised from the use of a spring of any kind, by which me
sure its reliable action under its rapid motionsas set forth.
25,088.-Maro Bradly, of Dundee, Ill., for an Improve-Horse-rakes
 whole being constructed and, employed together, in the manner and
for the purpose substantially as described. [Thisinvention relates to as described.
rakes in which wire teeth to ane used. The object of this class of horserakes in which wire teeth are used. The object of this invention is to
rendersuchrakes more durable than hitherto constructed, lessen the draft very cosisiderably, and also facilitate the turning and general manipulation of the machine, and at the same time form compact windrows.]
25,089.-J. D. Browne, of Cincinnati, Ohio, for Improved Cabinet Furniture:

25,090.-Henry Burt, of Newark, N.J., for an Improved Door-fastener:
I claim a permanent door-bolt made with the fastening plate, $b$,
bolt-case, a, and bolt, $c$, secured and operated as described.
25,091.-Joseph Calef, of Buffalo, N. Y., for an Improvement in the Running Gear of Carriages:
I claim the journal box, $Y$ constructer substantially as desoribed,
and combined with the friction rollers, $B$, or slldes, $W$, forthe pur-
poses set forth. poses set forth.
The combination of the axle, A, journal-box, $E$, friction rollers,
B, and equivalents, and hub, D. for the purposes set forth $B$, and equivalents, and hub, D, for the purpose set forth 25,092.-Wm. S. Carr, of New York City, for an Improved Water Closet:
I claim regulating the action of the cock or valve in water closets by
the joint operation of the lever and weight of water in the pan, subthe joint operation of the lever and weight of water in the pan, sub-
stantially as specified, whereby the cock or valve is kept open until
the weight of water in the pan regulates the closing thereof I also claim the construction of the valve, c, with the balancing
diaphragm, 12 , valve, 10 , and spring, 13 , as set forth. 25,093.-H. Chauncy, of Perry, Ga., for an Improve. ment in Machines for Dressing Stone:
I claim the arrangement of the pick or hammer shafts, $N N$, ad-
justable shaft, $R$, and adjustable traverse bar $P$, when combined or used in connection with the reciprocating carriage C and laterally
moving, or adjustable bed, U. in the manner and for the purpose set
forth

25,094.-A. H. Clear, of Providence, R. I., for an Im
provement in Pipe Connections for Steam Boilers: It claim making the connections between the injection pipe, or sel, with the side or exterior of the vessel, by means of a valve box
ituated within or between the inside and outside planking of the vessel fitted, with a valve, capable of being operated by a screw, or its
equivalent, by a person on or above the deck of the vesel, substan.
tilit as describer tir as describea.
The liability to bursting or breakage of the injection pipe or pipea


