FOREIGN SUMMARY_METALS AND MARKETS.

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An American-Wm. H. Ward, of Auburn, N. Y. the inventor 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 completeness of the invention, and it is believed that it will be adouted 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 insulated with india-rubber had been in use across the harbor of Portsmouth since 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 cultivator. The former plows up the soil in farrows, 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 Canal, 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 per cent, less than has been charged for horsehaulage.

PRICES OF FOREIGN METALS, AUGUST 4.

	£ 8.	d.		£	s.	đ.
Iron, English Bar and	~		Russian C C N D.	17		0
Bolt :-			Steel, Swedish Keg,		-	15
In London, per tun.	7 0	0	nom	20	10	0
In Wales	6 0	ŏ			10	Ō
In Liverpool	6 10	ŏ		21	0	Ō
Staffordshire Bars.,	8 0	ŏ			ŏ	ŏ
Sheet, single,	9 10	ŏ			10	ŏ
Double	11 0	ŏ			10	ŏ
Hoop.	9 0	ŏ	Copper, Tile, 14 to 28		10	v
Rod, round	8 0	ŏ	1bs 10	12	10	0
Nail Rod, square	9 ŏ	ŏ	Tough Cake 10	12	10	ŏ
Shipping Iron :-	e 0	v	Sheathing & Bolts,	-	10	•
Staffordshire Bars.	8 0	0	per 1b.		_	11%
	9 10	ŏ	Sheet			11%
Sheet, single Double	11 0	ŏ			_	
Hoon	9 0	ŏ	Old	-	Ξ	10
Hoop Rod, round	8 0	ŏ				936
Roa, round	90	ŏ		_	-	979
Nail Rod, square	90	U	Burra-Burra, per			
Iron, Rails, in Wales,		•	tun	-	-	-
cash	6 5	0	Russian	10	15	-
Do. 6 months	6 10	0		2	15	0
In Stafford hire	70	0		2	10	0
Railway Chairs, in			W. B., at Newcastle	-	-	-
Wales	4 5	0		3	10	0.
In Clyde	4 5	0	Tin, English Block,			
Pig No. 1, in Clyde 3-5ths No. 1 and	2 15	6	nom 19	8	0	0
3-5ths No. 1 and			Bar 13		0	0
2-5ths No. 3	2 15	0	Refined 14	5	0	0
No. 1, in Wales		_	Foreign Banca 14	6	0	0
No. 1, in Type and			Straits 14	3	0	0
Tees			Tin Plates, Charcoal,			
Do. Forge		_		1	13	0
Staffordshire Forge			Do. 1X		19	õ
Pig (all mine), at		. 1.4	Coke. IC	ī	5	6
the works, L. W.,			Do. 1X	ī	11	6
nom	3 15	0	Do. at Newport, 1s.	-		
Welsh Forge Pig		<u> </u>	per box less	1	-	
Acadian Pig, Char-		-	Do. at Liverpool, 6d,		_	100
• coal	815	0	per box less	2	2	-
Scotch Pig, No. 1, in	•10	v		3	0	0
London	8 10	0	Quicksliver, per bot-	0		
Iron, Buddith, Indian	0 10	•	tient. iter per bote	7	8	ä
Iron, Swedish, Indian madrid, per tun.	19 0	6	#2W 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•		•
monore of Par entress	19 9	v				

New York Markets. -Foreign cannel, \$9; Anthracite, from \$4.50, \$4.75, to \$5 CORDAGE.-Manilla, 856c. a 8%c. per lb. COTTON .- The sales were more favorable this week, still the prices

have somewhat fluctuated. Good ordinary Upland, Florida and Mo-bile, 9%c.; Texas, 10c.; Middling fair from \$13%c. to 14c.

Correct. There has been a considerable advance in the prices of his metal. Lake Superior ingots at 23c. per lb. for cash; sheathing, 260

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. Genese brands, \$5.25 a \$8; Ohio choice, \$5.50 a \$7.75; common brands from \$4.15 up to \$6.

HEMP.-American undressed, \$140 a \$150; dressed from \$190 a \$210. Jute, \$95 a \$90. Italian scarce. Russian clean, \$210 a \$215. Manilla 6%c. a 6%c. per 1b.

INDIA-BUBBER.—Para, fine, 57 %c. a 60c. per lb.; East India, 37c. INDIGO .- Bengal, \$1 a \$1.65 per lb.; Manilla, good to prime, 55c. a 61.10; Guatemala, \$1.05 a \$1.25

IRON.-Anthracite pig, \$23 a \$24 per tun; Scotch, \$24 to \$24.50; Swedish har, ordinary sizes, \$38 a \$90 : English refined \$58 a \$54 50 Swedish car, oremany sizes, 500 a 500; Elgissi reined, 500 a 504.00; English common, 543 a 545. Russian sheet, first quality, 11%c. a 12c. per lb.; English, single, double and treble, 8%c. a 4%c.

LEAD.-Gelena, \$5.50 per 10 lbs; German and English refined, \$5.70; bar, sheet and pipe, from 6%c. to 7c.

LEATHER.-Oak slaughter, light, 35c. a 37c. per lb.; Oak, heavy, 22c 35c.; Oak, crop, 40c. a 42c.; Hemlock, middle, 25%c. a 26%c. Hemlock, light, 25c. a 25%c., Hemlock, heavy, 23%c. a 24%c; Pat-ent enameled, 16c. a 17c. per foot, light. Sheep, morocco finish, \$7.50 a \$8.50 per dozen. Calf-skins, oak, 62c. a 65c.; Hemlock, 60c. a 65c; a polo per duzen. Carlsanin, dat, dec. a dic., remider, duc. a dic. Belting, cak, 22. a 34c. ; Hemlock, 25c. a 31c. Nans.—Cut ars quiet but steady at 3c. a 33c. per lb. American

linch sell in lots, as wanted, at 5c. a 6c.; wrought foreign, 3c. a 3%c.; One-Linseed, city made, 60c. per gallon , whale, bleached spring,

54c, a 56c.; sperm, crude, \$1.22 a \$1.27; sperm, unbleached spring, \$ 135; lard oil, No. 1 winter, 85c, a 90c.; extra refined rosin, 80c. a 40c.; machinery, 59c, a 100c.; camphene, 45c, a 47c.; coal, refined, from \$1.12 a \$1.50. 1.0

Rears.--Common, \$1.77% per \$10 lbs. bbl.; No. 2, &c., \$1.80 a \$2.12%; No. 1, per 280 lbs. bbl., \$2.25 a \$3, white, \$3.25 a \$4.50; pale, \$4.50 a \$6.25.

SPELTER -5%C. ner lb.

STERL - English cast, 14c, a 16c. per lb.; German, 7c, a 10c.; Am-rican spring, 5c. a 5%c; American blister, 4%c. a 5%c. TALLOW.-American prime, 10%c, to 11c., per lb.

TIN.-Banca, 33c. a 341/sc.; Straits, 32c. ; plates, \$7.50 a \$9.831/s er box.

TURPENTINE .- Crude, \$3.62% per 280 lbs.; spirits, turpentine, 44%c. ZINC.-Sheets, 7% a 7% per lb.

The foregoing rates indicate the state of the New York markets up

o 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 are now being m le in England to increase the cultivation 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. When it is remembered that the prices of cotton are not over one-half what they were half a century ago, the improvements in its cultivation since then must have been neither "few nor far hetween."

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 35c., 40c. and 45c ; California fine at 25c. 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 peach 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 machines, 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 during the next twelve months, making the number about 78,600.



ISSUED FROM THE UNITED STATES PATENT OFFICE FOR THE WEEK ENDING AUGUST 16, 1859.

[Reported Officially for the SCIENTIFIC AMERICAN]

* Pamphlets gi ing full particulars of the mode of applying for patents, size of model required, and much other information use-ful to inventors, may be had gratis by addressing MUNN & CO., Publishers of the SOIENTIFIC AMERICAN, New York.

25,083 .- G. L. Bailey, of Portland, Me., for Improved

Machines for Punching Holes in Leather: I claim, first, The arrangement and combination of the bed-piece, lever, A, and hollow cutter, C, provided with a standard, D, con-generating rod, E, and treadle, H, as and for the purpose set forth and described. Second, I claim the arrangement, as set forth, of the circular ad-justable cutter-bed. D, in such a relative position to the cutter, C, as to accomplish the object specified.

to accomplish the object specified. 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. Second, I claim the arrangement of springs, 5 and 7, wedge, 10, finger, 6, spring, 18, and stop, 20, substantially in the manner speci-fel. Th rd, I claim the arrangement of lever, 18, slide, 11, and lever, 12, when said lever, 12, is provided with points, is privoted to slide, 11, and made to operate substantially in the manner described. Fourth, I claim the arrangement of the ratchet wheel, a, serrated bar c, and ratchet e, with the spool-rod, and levers, C C', substantially as set forth.

25,085.-Mellen Battel, of Albany, N.Y., for an Im-

20,000. — Mellen Battel, of Albany, N. Y., for an Im-provement in Steam Generators: I claim the combination with the tubee, C C, extending downward through the tube sheet, or crown of the fire-box or downward into a, flue, and upward through the water above the tubesheet, of the inner tubes, D D, applied in the manner described for the purpose set forth.

25,086.—T. D. Berry, of Lowell, Mass., for an 1m-proved Clothes Eack: I claim the construction of my clothes rack, with divided center, or of two seetions, each to consist of center-niese. A slats between the section of the sectio

proved Clothes Kack: I claim the construction of my clothes rack, with divided center, or f two sections, each to consist of center-piece, A, slats, F, braces, H, nd circumferential pieces, E, united to each other as described, when see two sections are combined with each other by plates. C, so Inged as to allow the rack to be folded and opened, both vertically of circumferentially, in the manner described, to obtain by this di-ided center, a rack suitable for use, when, folded, closely and cir-umferentially for the purposes set forth. and

25,087.-E. Booth, of Troy, N. Y., for an Improvement

I claim, first, The combination of an eve-pointed vibrating lever, and a looper, operating together substantially in the manner and for the purpose set forth.
Second, I claim the vibrating of the eye-pointed lever by a positive motion given to it by the rollers, tt, entirely, and as contradicting usiabed from the use of a spring of any kind, by which means I ensure its reliable action under its rapid motions as set forth.

25,088.-Maro Bradly, of Dundee, Ill., for an Improve-

25,063.—Maro Bradly, or Duildee, 111., for an Improve-ment in Horse-rakes: I claim the use of the recessed metal bar, b, spurs, E F, rods or hoes, B, elastic bar, I, lever, J, slide-rod, K, and projection, G, the hole being constructed and employed together, in the manner and or the purpose substantially as described.

[This invention relates to an improvement in that class of horse rankes in which wire teeth are used. The object of this invention is i rendersuchrakes more durable than hitherto constructed, lessen th The object of this invention is to draft very considerably, 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 Im-

proved Cabinet Furniture: I claim the arrangement of the folding ends, C C, as set forth, and the flaps or leaves, E E', hinged on the inside, for the purpose sub-stantially described.

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, olt-case, a, and bolt, c, secured and operated as described.

25,091.—Joseph Calef, of Buffalo, N. Y., for an Im-provement in the Running Gear of Carriages: I claim the journal box, Constructed substantially as described, and combined with the friction rollers, B, or sildes, W, for the pur-page set forth

and combined with the friction rollers, B, or sildes, W, for the pur-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. The arrangement of the jointed braces L M N, in combination with the running gear of carriages, for the purposes set forth.

the running gent of car neger, is a we parameter a sum 25,092.—Wm. S. Carr, of New York City, for an Im-pforved 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, 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-

25,094.—A. B. Clear, of Providence, K. I., for an Im-provement in Pipe Connections for Steam Boilers: I claim making the connections between the injection pipe, or other similarly submerged pipe of a steam vessel, or any other ves-sel, with the side or exterior of the vessel, by means of a valve box situated 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 vessel, substan-tially as described.

The liability to bursting or breakage of the injection pipe or pipes or other submarged pipes is an ever-present source of danger on bourd steam vessels, and in other vessels there are frequently submarged