is allowed a large and munificent reward, not only on account of the benefits which he may have conferred upon his race, but that his brilliant success may stimulate Rather than with a begl dging spirit grum ble at the success of such an inventor, and fear that he may profit too much, we should congratulate ourselves that a wise provision of the law has placed it in our power to bestow a reward upon him commensurate with the benefits which he has conferred upon the public. It is a peculiar fe. ture of this case that the opposition to the extension does not come from those persons who have adopted and paid for the improvement but from certain rival iron manufacturers and contractors, who, during the fourteen years of the existence of this patent, have probably accumu lated larger fortunes from their regular business than Mr. Hyatt has from his invention. The fate of the inventor is a hard one at best. No matter how vaiuable and important his invention may be he must first and important prejices of the public, before overcome the prejudices of the public, before he ls
able to obtain any remuncration. By this time, able to obtain any remuncration. By this time,
as a general thing, the duration of his patent has as a general thing, the duration of his patent has
already partially expircu. Then, as soon as he has already partially expired. sud his labors and perseverence in satisf ying succeeded by his labors and perseverence in satisf ying
the public of the advantages of his invention, and has the public of the advantages of his invention, and has
created a market, hundreds of greedy rivals at once by a created a market, hundreds of greedy rivals at once by a system of piracy attempt to rob him of his property.
IRich and powerful combinations are formed against him. He is compelled to abandon his invention or submit to prolonged vexations and expensive litigation. mit to prolonged vexations and expensive lithe
Niue inventors out of ten, unable to withstand the press are brought agaiu; them, retire broken-hearted from the ure brought agaiu, them, retire broken-hearted from the contest and finish their lives in povery and want, while
those who have robbed them reap all the profit. The those who have robbed them reap all the profit. applicant in this case is, to a certain extent, a wiving ex
ample of the truth of these statements. It was about ample of the truth of these statements. It was about
seven years after the patent was granted before he succeeded in conquering the prejudices of the public, and ceeded in conquering the prejudices of the public, and
rendering his invention profitable ; and although he has rendcring his invention profitable ; and arevented by infiingers from realizing some remm still be now finds them remonstrat ing arainst the further extension of his patent.

After having devoted more than fourteen years of the best portion of his life to this invention, he has succeeded in realizing a profit of $\$ 93,000$. This covers his profit both as inventor and manufacturer, as well as all that may be properly chargeable to his other patents. A thorough investigation of the case has satus fied my mind that the profit which the applicant has received from his invention is not suticient, when compared with the advantages which the public have ex pcriencell from it

It is therefore ordered that the patent be extended for seven years from the 12th day of November, 1859.
w. D. Bistor,

Commissioner.

## FOREIGN SUMMARY.

At the recent meeting of the British Association of Social Science, Lord Brougham, at the advanced age of 82 years, delivered an address over two hours long with all the vigor and eloquence of a young orator. At this meeting many gratifying facts were reported by Mr. A. Bakcr, regarding the benefits conferred by the Factory Act upon the operatives in English factorics. He stated that by the reduction of the hom $s$ of labor, there had been a marked and decisive improvement in the health of factory operatives, and an entire disappearance of the physical deformity and excessive mortality which prevailed among those classes previously. In the condition now brought about by that act there was no greater amount of disease, deformity, or mortality among factory laborers than others, while for some years previous to 1832, a marked and alarming deterioration of physical strength had occurred.

The Queen had attended the opening of the new waterworks for the city of Glasgow, at Loch Katrine, in Scotland, made famous in classic song as being the scene of Sir Walter Scott's "Lady of the Lake." It is a beautiful sheet of water, very deep and clear, and is convey ed about the same distance through a conduit as the Croton water at New York. Heretofore, the city of Glasgow has been supplied with water pumped from the river by hage steam-engines; it is now to be supplied by gravitation, and the expense will be much less. As a work of engineering it can compare favorably with some of the greatest achievements of ancient or modern times, and deserves to be very generally known. It enibraces 13 miles of tunneling, $9 \frac{1}{4}$ miles of aqneduct, and $3 \frac{3}{4}$ miles of huge iron tubing. There are altogether 70 distinct tunnels, upon which 44 vertical shafts had to be sunk for facilitating the work. The first tunnel is 2,325 yards Iong, and 600 feet below the summit of the mountain. It was excavated from twelve shafts, which had to be sunk 500 feet deep. There is another tunnel 3,650 yarcls long, cut through blue basalt, at 250 feet below the summit of a hill, The rick in all the timmels is very
hard, heing mostly gneiss interspersed with veins of quartz. In some places it required a new drill for every inch that was bored, and although the work was carried on night and day in some shafts, they sometimes could not make over three yards of progress in a month. The undertaking was commenced three years ago, and was ecommended by Stephenson and Brunel. It is remark able that the Great Eastern, the Victoria Bridge, and the Glasgow Water Works, with which the names of these reat engineers are associated should have been com pleted just about the time they departed, and that they were denied the pleasure of seeing their elesigns per fectly finished. The supply of water to Glasgow will be $50,000,000$ gallons per day, with a store sulficient for 120 days without rain.
The metal market has been somewhat deprcised ince our last. This is attributed to the unsettled state of political affairs. Banco tin has fallen slightly, but copper has somewhat advanced. The export of British coal has increased during the past year to the extent o 270,000 tuns, the whole being $4,499,950$.

issuld from the united states patent officie For tie wifis ending novinhaz 8, 1850,

## [Reported Officially for the Scientifio Americax.]




26,005.-Corintha Alden, of Cassadaga, N. Y., for an Improved Clothes' Ironing Apparatus:
I clain the arranecment of the loox, A, with the fonlower, B, or it hic purpose specfied.
(With this invention the opcrition of ironing is rendered so easy hat it requires no wodily exertion, and in fact neither particular at tention nor greut skill, The clothes are neatiy folded in a box, and compressed by means of a follower, and in this state they are exposed to the influence of steam for a few hours. When properly folded they berome perfectly smooth.]
006.-Ephraim C. Allon, of Le Roy, N. Y., for an Improvement in Corn-planters:
hine described, when the whole are constructerl and combinged for preation conjoi itly, as an : for the purposes in this specification sct
26,007.-John Aspinall, of London, England, for an Improvement in Refining Sugar. Patented in Eng land Feb. 8, 1859
I claim the method described of effecting the blowing-up or melt ing of raw sugars; that is to say, by so sllilporting or uppholding thic
ugar that sllicessive portions will be brought into contact witl
the water whereby the sungr will ie melted the water, whereby the sugar will be melted at or near the
for the purposes and substintially in the manner set forth.
26,008. - Merrick Bemis, of Ashburnham, Mass., for an
Improved Compensating Pendulum:
What I claim is my improved mode of making a compensating yensectoral bend, and applying to such bend or part a clasy or bow of
netal having a different expansive ratio, the whole being substantial
y as specitied

26,009.-Rober't Blair, of Malugin Grove, Ill., for an
Improved Device for Applying Steam as a Motor:
I claim the combination with a radial lever, or frame, $D$, and circu-
lar railvay, $\Lambda$, and central revolving power-transmitting shaft, $\mathbf{C}$, of a traction, steam-engine, $B$, when the crank axes of said cngine $C$, of
diate from the central shat, $C$ and the inner traction wheels are diate from the centrater than the outer one, the wllole arranged and

## [The objec of this invention is to persede the various horse

 powers that are now used for driving portable machinery, chiefly ch as are used by agriculturists, $\Omega s$ threshing machines, for in sance, churns, pumps, and the like. The invention consists in plac ang a traction cagine on annular ways, and having said engine at thed wheel or puller from which the pofer is isk as the with passes around the annular wass.]26,010. - Nelson Bur, of Batavia, Ill., for an Improve
ment in Corn-shellers:
I claim the peculiar arrangement of the .ection, $\rho$, provided with he ring, $\mathfrak{d}$ and nlaced relatively with the cylinder, $A$, and adjoinin
[This invention consists in the employment or use of a rotating cyl and wing and the whole to latter being provided win a doo conting machins: being capable of being used in either capacity by a very sim ple aijustment.]
26,011.-'Thos. Carpente1, of B.tttle Creek, Mich., for an Improyed Shoemaking Table:
bench, A, and compariment box, $B$. constructed as dcescib: with s:lh

26,012.-R. Carkhuff and B. Chalfant, of Lewisburgh Pa., for an Improvement in Steam Valves:

 well as
firth.

2G,013.-I. C. Chase, of Boston, Mass., for an Improvement in Girth Buckles:
I claim constructing a buckle with wings, $D$ p , or their equivalents,
and furnished with holes, $b \mathrm{~b}$, subs, tantin , bjects specified
26,014.-B. S. Chlu'ch, of Marhattanville, N. Y., for an Improvement in Water-meters:
I claim, first, The arrangement of the vartitionf, of', in the trough
 pass through the measirin.
of the air in the chamber, $D$. Second, Arranging in the air-chamber, D , a float, j , in combinatlon
with a valve, li. or its eq eqivelent, sulbstantially and for the pur
pose descrived. puse
26,015.-Gcorge Clay, of New York City, for an Im provement in Packing for Sliding Gas-lighits
I claim the comlination with the pipe, D , shell, A , and pipe, B , of
the clastic tube, C , when tinc latter is fitted oo that its centerl portion ve castic tube, c, when the litter is fitted so that its central portion o form a gas-tigllt joint, all as shown and described.
[This packing is so simple in its application and so en cicnt in it action, that it rccommends itself to all gas-hters. It consists sim ply of an elastic tribe, the ends of which are expanded over two mip ples, wherely its centril part collapses, thercloy making a tight fit the same time allowine the pips to slide up and down] tube, and at the same time allowing the pipe to slide up and down.
26,016.-J. W. Cochran, of New York City, for an Improvement in Projectiles for Rifled erdnance:
 scribecond, Tha expanding ring. D, applied substantially as described
Se connhination with i conical surface, f firmed behind a shoulde
in the front in combination with a conical surface, f, farmed behind a
on the front part of the projectile, for the pulpose set forth.
26,017.-J. W. Cochran, of New York City, for an Im-
provement in Prajectiles for Rifled Ordnance:
 ther wire, wound upon its cxterior, substantialiy $a s$ described for tho
26,018.-D. W. Comstock, of Chicago, Ill., for an Improved Railroad Gate
I claim placing the ends of two pairs of adioining raiks, $B^{\prime}$, on a
rising and falling plat form, C , when the latter is suspended from the shoris arms, $d$, of crank levers, de, thic long arms, e, of which carry
the pnuelr,, of a gate, substautially in the manner and for the pur
[This invention is of great importance, particularly in such pla e where railvoads pass through towns, or wherever a railroad crosses a minon road. The gate opens as the train approaches, and as soo the road which might cause an obstruction to the approaching train. 26,019.-Wm. F. Converse, of Harrison, Ohio, for an Improvement in Railroad Car Springs:
I claim, first, The combination of a clamp, f g h, with a disk epring Second, Iuzconnection with the ebove. I clain the series of annula
tecl disks, of unequal diunter, urransed in maner and for the purpose descrileed.
6,020.-N. B. Coopcr, of Gratis, Ohio, for an Improved Churn-dasher:
I claim the arrangement of the arms, $d$, on the two noints, $b^{\prime} b^{\prime}$
ne on cache side of the upright, B , whien the upright, B , is made re one on each side of the upright, B , when the upright, B , is made re-
movable by means of the ways, $\mathrm{x} \times$, substantianly as sct furth.
26,021.-Edward Crane, of Dorchester, Mass., for an Improved Steam Boiler:
I claim a fire-box surrounded by a water-jacket, the combination of so that a number of tubes shall have the same comnctions throush he said doxes or chambers with the watcr-jacket and steam chamber, and shall also be
at the same time.
I claim the uiee
I claim the ure of tubes coiled or folded into the fire-box, and conchambers, a and $b$, and $a^{\prime \prime}$ and b, ," as described, of such lengt in phoportion to their, diancter that ? in the water enterins them a
the lower end as siall ic converted into steam in the lower portion,
 team gencrat cated steam issuing therefiom siall be disclari, et into a drum
round the climney and auainst the chimncy, in the firstinstance and then against the surface of the water as described.
I also chaim the use of the drum around the climper
chamber for securing the discharge from the tubes, and clieck steam hismber
disturbence of the water throllgh the the whe the exes, and check ing the
chamber, arransicd and constructed ofs described the stean Inmber, arransed and constructed ass described. with the stop cocks
I clain the combination ot the blow-off cocks, e, tits se de for the purpose of blowing off cacll section of tubes separately, as
I claim he use of the tube coiled around the chimner, for the pur-
pose of tang the stean from the steam chamber, at the point where
thas the highest temperature. it has the high
i6, 029 -
26,022.-Edward Crane, of Dorchester, Mass., for an
Improvement in Railroad Car wheels.
I claim a wheel having its rim and tire secured together by india
26,023.-Munson C. Cronk, of Aubiari, N Y., fori an
Improved Clothes' Dryer:

6,024.-C. A. Desolll'y, of Plapuemine, La., for an Improvement in Pans for Evaporating Cane Juice
 described, $\begin{aligned} & \text { nd in combination with the said heaters, connections, and tro }\end{aligned}$ And in combin
[This invention consists in a certain novelsystem of heaters ar ranged within an evaporating pan, in combination with a suitable system of connections with two series of pipes arranged below the pan for supplying stean to the said leaters and conveying away the wate of condensation, whereby I am enabled to present an extensive an van, and to prevent effectively any chlifetion of water upan the sri urfacer.]

