
#### Abstract

begun; and he believed ibat bozes, now made of wood, would frequently be made of paper, our manufactureiad, an iosupersble objecs there wan, in his miad, ind there paper fellers altogefber. They formed a tas and a hurden


 upon the literature of Enplaod. He beliesed that two-thirds of the paper manufactored were used for the purposes of pristing. There whe glo this anomaly in the duty : much of our paper (eaprcisilly the paper of which newspa. prere here made) wat formed nut of the niveep. ings of our cotton and tas-mills. There was no duly on these arfictes an ray waterisis: but they paid a duly when they entered the poper-1hate. 'lurn coton into culieo, it was Tlisefliect of the pippol of llie duty on alraas. nack was all inatance of the effect of repral. ing a dury upon literntupe, however lowly, Hut he beld the mere duty on paper net in lue an great an evil as the interneddling with the paper trade. If thear dometic reatirieliong wereremoved, our langunge and our literature would naturally expand. He next turned to an impont on e common urticle of grent and incremsing imporiance-the meant the Faxiseduty on beicks. In thim enoe, as in the eace of anap, there trat an duly on the manufneture of Irmiand. Indred, cumparatiorly, there owas scorerly any dury in Sentand, oince nemeure bad pinvided Scmland with an ample mupply of valunbien nome: Rut.where the diaty did fall in Scotland, if ivas. hy enmparigon, the more ap. preacice. Thinduty was orizinully lorpased bis the debt ereated by the revent war witb Ame. rica. At firmi it extended tos stone, an well ab to bricks; hut the otone interent was success. ful in ins reberlion againat the dut:. Mr, Pits wes abliged to yield. He teft the brick duts: alone remaining; but he arknowledged the impuliey und paruality of its chapuctur. In fuct, be maintained that thio was, in the fangunge of the Comminnioners of Fixeise Ito. quiry, 'among the mast ohjectinnable of the dutien of Fixciae.' Since the plass-duties had been aboliaked, how grant bad bren the development nf that most beautiful fabric: The window of erery glass shop indieated that scinnce and art combined io improve and 10
embellioh it. Frw wnuld ouppose that there wan a connection between the arts, and the making of brick: but he remember fhat when it wam auled in a commattes fon the connection of art with inanifactures, which he twas chairman, in 1816 ) why we did ant
make brieks of various shapes, us in the time of Henry VIIf, and Ilenry VIJI.? the answer Wan, Hat the restrictinds of the Excise prevenied us. He fiund this evidence singularly emroborated by the saluable tentimony of Mr. Whood, the chuirman of the Exciace Bourd in the last amasion of Parliament. That gentleman, in his evidence hefore the Committee of the llause of Lurds, on - The Burdent on Lund.' atuled that snme of the exclase regula. tiows on the manufacture of brichs liad been relaxed, and thut "the enneryuence of this alteration was, that grent facility had been giveri for making bricke of ornamentel shapes, and erabling anchitectural ornarments in be muile ith heriek, previously in effect prohilhited. He (Mr. Ewart) bad no doubt that an ordinary a trade we the bick crude, when emancipated. would be pusde still furtier obedient to the purposes of art. He lad limited the foreking suggeations to duties of Customs and Escise. Headantted the injuntice and impoliey of outher duties olso. The mindow nitiowas The of a mbicuatequal and inpulitic character. of Noe parene and the reworcen of the funaily: and other duties were, io varinus way, objec. tionalise. But he priacipally assailed those duties which olnairucted or choked up the sources and aprings of Lubour.

Tanhas yon Estimating Eanth-work Mr. Charles Silbley, son of the district-sur. Weyor far Clerkeawell, and Mr. Rutherford, of set of tshles for eationsting the contenta, in culic yards, of the caritiwurk of railuays and othor public wrorks, which apperar to huive medTinntugren uver others, aud will be found uniful." We shalf suke an early upportunity to louk to
them more closely.

IMPROVEMENT OF SMITHPIELD MAREET.
Wr have receired, with the following, from a naval officer of high otanding, drawingt, exetmplifying his proposal, but think it unneeres. aary to engrase theri

I would sugcest that a platform lee buile on arehen, necopyine the whole extent of the preane atie, leaving a street, or road-way, all pound, 60 feer broad. That the elevation be suchas to allow of a piazza of anope all round, vaulted; that in the centre of the platform tra or three, ar more, arched waye ehwold pierse the platform from side to side, of sufficient height und capacity to receice wateratizht
waggons on four whipele. Thal leading to the platlerita a hure thase nhintild be a slaping riad "ay at pachanoulp, with haluntraden; sult that the platform be ronfed in, in square comapart. mente, open on ull vides, suppurted un irous pillars: one-halfof the apace to be apporrioned in the raie of ratle, the viber hislf the the slaushtes inf them.

Thut pach of the asaid compartmenta be Honred with lorsad fagi, laid in rement, the wholo haring a stape tur a perforation of a froint square, curresponding to one of the ceraral archeen, umuler wbich a waggon, at befors deacritied, is in he plared, to recrive ill the droppinge and offal of the catlle. That the waggona, when fult, be sumared by meone of a ruiluay landurard, or a mouterain railway, lewding to the river, as the cround atforis -ufficient full to ennquer the ris increic. Wlien the whegons are noce bet in mothot. Arrised at the riter, the contente of the waggane to be delirered into barges, prepared to rrorive then, on hoard at one, and their contents to be entered into the barges by a trap-domer in the centre of the wagton. Eimpty wagrons to im. medrately supple the place of thras removed. Adtantages of the Propased Phan:-1. All nuisance: would be remsseal when once the catile ascended the platfurm. 2. The air woutd cease to be contaminated, as all offen. sive mather would be apeedjly" remored, and previously remain conered in waygons. 3. The meal, when ready for the nuarket, would at once be received into the ruulied slopos, and thus pecupe being shaken when efarried over the parement. ithe shops would be alweya cool, and from both there chuses the nurat "ould remain sweet much longer. 4. Bunineam would be tratasarsed much more expeditinualy, and at less expense, nur wiould there be any interruplions frnm vicious chafacters. 3. The value of the manure, which ot prement runs to waste, would be such as in a short time to pay ull expences, and return a large re.

The above plan is not only applicable to Landonn. hine to all inw in in the klugdom, and best kind, with lime latour ur expener.-A. $n$

## IRON TENNEL OVER THE MENN srR.IITs

A conkeprosubses of the Wiming Foumal calls for further investigation before the iron tunnel the put up. He ayys:-"Acrording in my informant, is leneth is to be thon frett, clear of athe points of bearing-son that 1 presume the eutire lengut cantint low far stort of 5,0 feet: its diapnetep 30 fect. io be conastructed winh wrought irstn plaies, varsing foun $\$$ in. 10 in. whick - therefore, suppasing the average
thicknes, to be and including the needful thicknees to be , and including the meedful Interal porsutures and straisa, hogwther with the interion framinimand rails, I estimate its weight si upwards of :ibl certa. fore erery foum of ite length, ar about in) 100s. Nom the depth of the tuke is Wheet, "hich is about isth part of its length, therefore, according to nuy machine, the strain be its own weighe at the middle will Le equal io is times its weight-viz., seso tons -and solppose as rain with lie engine and load It be lolit ton", equal to $\overline{50}$ tons-together (amill tons. According ta Barlow's theory, the *afe capacity 80 resist aueh a strain nught to be
 Pt, (M00 tons. Now let us see what is the enpa-
city uf thim projected tunnet, or tube:- T he circumference io (say) 90 fret: the teasion property in the lower half, its feec. Suppome
 it wrold pire ig synare inches on each fool: ay. that pach such would sutain, before
breaking, 20 tons; this would make 130 enos io each frot, which, multiplofd br 43. Eive. a capreity of 6,750 tona: yw that its ourn ireight, aind the had, wroudd. areorditug ton birs eaterik. fimn, foduce $n$ atrain nearly equal bo the birad. ing point. Now, we wugbt iron will begia in eiretch at the mrain of 10 or 12 tons to the inch, it must be manifent that litile morre then half itis weight would produce a permanedi uet, and resder it perfectly unfit and unnfe for lle desired object."

## progress of the health bill.

Is acrordanen with the prospect of perso verance in the dotwomation th carpy $\overline{2}$ lbe preerar aseion Jurd Narpeth's bill wa failly launched inlo commailtere on the lat is alast; and, in face 108 a rather sulky than nbationte "nppaniliche: mape clauof after anniber wat tellid nuer into the shape of incipient la cither by majoritien fanging froph 9i, for ming into the commiltee llorlfs down in 22. the loweti majority gninad of the highrat
 slawily to dause 21, on the Glli ithanins.
Duing the progeress thue mode, latwerer, tro claumet, Non. 17 and 21, were pasturined forerm. aderatiun or modification by Gurernimetat, add iwo others, furmerly Sios. 19 and 20 . wion found to bive been mmitted intugether. The omismind of thase vin latras clauset. Lond $L$ ncoln declared wouid render the bill, in will hut a few casep, either gupatory or inoperatio., or alogether ahsurd. It would esen, his lo-d. -bip alleged, lead to the fecluanm of aueb - biver of induarry a Lirerpimal and Manchester i und accurdingly Loord A. Bemtinck, at once taking the credit th hmselt of remaron only that cutment sugerested to him, dectared thet be was justified int, and that the councry mould perceive be had goond remanne for, throwing hungelf as atarchling whock in the Way of this thill: and he accordingly forthwith ralled on Lיird Morpeith io abandur al once mo - beterngenerous as niacos of confuned and than-
dering fegislathon. Mia Jordahip (Lord Mor. peth), hracever, ascured his nolie frienda that at the boundaries of Liverpool and Manchester bad been fixed hy the corporation ater of le35. - thooe twin hiven of industry could at ace bave the bencfit of thia tweanure applied to them." The reuson why Governinent had thought proper to exclude the wa conaem io queation was, that the nne conferred ap potrer coancil, which should if possible tre diapeased with, while the atiar prorided for an increase a the number of a council dependent on the exercise inf the first: whercas it was now cnaceived ehat the mores proper inode of proced wre would be in pans a separate Act, analngoun to other boundary Acta, allowite the ambilary bill to operate ir the rementune wherever to properly conald, and wheh it stiil would do :o much more general extent than was imngired. A. to the allusiun in "dimericta surpouncing towne in clause pith, the withdrawel of the
word was agreed 10, and a modiñention pro. raised, to no astll su include sulturbo while ex. cluding rural diatricts. Is in proposed tu Inre but one paid coutas istioner. the expence uf the conamisaion to be cotrined in l.thty\%. per
 menaing, is to leve aruerded.
In alluaion to much fersobuble erumb ing equast the exclusion of the noctropalia, L.ord Morpeth erplained that, by the advice of the Healih of Towns Ansuciallun itself, be had excluded the metropalitas diatric: from the operation of tbie bill, in order to reduce tbe risk of excluding the whole countre till ann ther session; and Lord John Rusacll resoarked that hovourable pentleroen opposite epatie of this queation as it it were proposed to rs. dirde the meerupolis from nuly sanitare reguhutions, when the fuct was, that the intertion of the governmeot was, to intruciuce a measure with respect to the metropolin in the next sea ainn of parliament. Honourable fentlemen opposite bad expressed extreme zeal fow the aditary reform of she metropulis. as wel a of the varioun towns thrauk hat the congity defeas of bosh of the ends in riave. He there fore hopud the" would, bs hase: he delempod in their present olyject, as thes mizh rent amured that the metropulis iteelf, is well as the conatry

