the arkat eastern stbam-shir. The grand destruetives of nature are the winds and the waves; their appointed business
is breaking grindings. and palveriaing. Ben
the adamant-like zock of the sea-shore is ehanged by their pertinacious effort into ineoherent and aimosir impaipabie sand. But he power
they esin exert in their lawfol task has, never-
theless, a narrow well-defined limit, which theeses, androw weil-delined limit, Which
appears reall to have been set within that of
the antagonistic capaeities of human ingenity. Sthe antagonistie eapaeities of human ingenuity.
Science can now acoomplish what Canute of
old shrunk from attem ting This fat old shrunk from atempting. This faet was practically illustrated so soon as breakwater
barriers and light-houses had been reared
amidst the storn-surf of the oeean, whieh amidst the storn-surf of the ocean, whe while the violence of the
could stand firm whil
ricane ricane raged remorselessly around chen
But is there anything in the mere n of buoyaney which tends to reversse thiss state
of aflairs ! Is there any soficient reason why of affirirs ? Is there any sufficient reason why to the spirit of the ocean-storm, when claimed
as its holocausts! So long as men were true to as its holocausts? So long as men were true to
early tradition, and built their vesseld of wood,
there could lie no doubt the winds and the waves must uien prove to be too much for the resisting capa ilitites of the struature. Beams
and planks could only bo procured of a certain thickness, and these could only be attached
together with a very limited amount of tenaeity. The strongest mass of timber man eould frame, proved to be as frail as a mateh in the
hand of the tempest. When, however, abandoning these early traditions, shipwrights
turned from the forest to seek their material in the mine- when they deserted wood for iron,
and took to the hammer and the anvil in the place of the augur and the adze. the case was
altogether changed. By the aid of the steamhaimimer, ribs and plates ean be forged of any
dimensions and of any strength and dimensions and of any strength; and by the
employment of red-hot rivets, these plates and employment of red-ciot rivets, these plates and
ribs mayy be so attached together, that the lines
of union have aetually as mueh strength as if the work may be tested, too, at every stage by
the Titanic wrench of the hydrauli--press, until perfect assurance is attained that no weak places are loft in the fabrie through neci-
dent.
dine first atempts at this novel kind of
naval architecture, which was to endow dense naval architecture, which was to endow dense
iron with the properties of cork, proved to be
failares in a greal degree, as was to be anticipated. As in all other walks of aft, it seemed that a certain degree of practiee and experi
ence was essential to perfection. It has gene
tall been coneeived that the ill-fated Prsideni


 mon ths among the breakers of toe rock-bound
coast of Irelad, and yet Ininly footed of un
ecathed, to render good service to the British government $a s$ a transport in time of need
The grand experiment of the cyclopean order of nand bhorty to be pat to the tost preparation and thoruy Steam-naivigation Company have for
Kostere time been engaged in building an iron abip upon a seale, both as regards absolute
dimensions and strength of material, that will at once clange its loviathan predeepssors into jigmies, so fir adranced towarde completion, being that it has become e very intereeting object. 1 what of the hothoile and depoptiforl. About 120 in the midehips i 200 feot more each way
towdrots the bows and otern, have a skoleton of
innor phates attuobed together, so that the Innor plates and chyractoret of the strueture the Thes far obvious to the eys: but other cepenty


 H20



 Meran
 antifu gix amooth and neek, and faliobed to poifthin int of
ad and rasty, and without its esternal layer. partition-walle of the interior that constitute




 fartber aennder in the hipher portion of the
vesel, where less strengh is required. The
The henel. where teass streng thit risequired. The Itis eomposed of a very, great number of long
 the conneecting aribs wounded athin anove and below by
dithoubse walls of the tho double wallto of the hull, and at eaoh end by
cross partitions, to bo more partieularil allo-
 broken or torn when the ship it afloat, the
water would rubh in, and find iteolf in one of theser chambers, but and would then cone in
contaot with another shell of equal strength with the eaternal one, which would effictuilly
oxelude it from the true interior of the veseel

 would still find itseof fentangled in new arranger
ments, intended to limit its powers of misehier, and do very great harim would resuilst But
these arrangenents will be best undertood $b$ by glancing at hem from another point of view.
Acoess
to the upperdeck aggin andad agoon an en atirease, which doublee part of tho iron shell i isenched. $A$ broad heree
plat form of iron, exuetly like the oufer surfied plat form of iron, exaetyly like the oufer surfinee thate extends beneatht the reet. This platform,
is double, or cellular, like the hall
already deeseribed. At the two extremitios. fore and
aft, the inner sleoll is seen extending further

 neighbors by nuts and terews, which are soon
to pe repled by rives. This doek has boen


 be the water--ine when the com pieted veseal i


 the therwarkf. Thases prouncht part of a mieae



 Prria, at p
the oesan.


 Fing inys, ebotioetivg, the vide-prouenedes,
 orn the doek looken down through them into the groent cevititee of ore vesoel, and vat inded






 thio maj, even if tho whter ablould efiotivn eil




 partitions, small and largo, with the adidition ad eililing aro requirred, the strueverure will be


 ohip enire weits ued as at aimple beam, it it
antioipated that this multiplication of inter
 very mnoh more violenco, and much hearie
 ot the numesiosos shis, the water-tigbt ooparactee
 Not the eseai The fiur probability ie, that the


 foot or two of deeper immersion, a yet naviga.
 to the bottom, until wator enough had found
to way entroy mase a little heavier than an oqual buik or tren mase anine nuid.
The hume fid
Thies huge iron fabric now stande upon 15000 pieses diriven doep into the loose ground. 1 it io
reared up from these three or
Lour feet
by
 and eurious visiturs to pass on among them by


 plateos. and girdere alike. It ie the stoutes sided ascending strueture. The bottom an mado of plates ihree-quartere of an inch thick:
the thinnuast plates, planted above, whore lese



 inch in diametor. When tho oboevreer stande
 tely two sturdy workmen attack it with alternate strokes of the bamimer, until the red pro
jeeting peg is changed into a lit bakk butto

 dihipe hall ie sesetobed oot by lines upoo mid
foor, and other linues of difleran eolours are treed within the spaee ineluded in these,
upparently inexticable coufasion.
Thbeed ait, huy dere, giages for the diniendione of the vible to the prinitipedes. Wand porfeetly intell irre propared from theode gougeig mound hen the corrospoad aith the moulde.

Railway Progress.-The Westmonama Tines of last Thursday contains the follow g piece of Railway newe,
hond with minch antiofaction:-
At last we are enabled to announce thay Engineer and Commiesionor of the Euivor pean and
complegie
place.
A num
A number of renders had been hapded
a, three of which, from among the lowest, Section comemencing at Point de Chene, Scadouck Viaduct, by Memelud. Wiliker Seankin \& Walker of Canada. Seoond or Middlo Section, by Mr. Wm. Meerrd Socenees. Syken is Co. Bridge, by Mr.' John Brookfield, the lat rell- known Contenoter of $A$ he St. Androw' and Qugbec 日hilrood.


A fire broke out at St. John's N. B., in titchie's tannery, near the "Golden Baill," aildiggs in the aeighborfood before it was Thested, besides partially damaging others. he lose has falleon aeverely upop several
idustrious and worthy mechanies, whose atablishments have beea totallity destro eded. We deeply sympathize with the sufferers.Another fire ocecurred io the sflernoon, in a house belonging to J. Doody, on the cor-
ner of Germaiia and SS. Jame riginated froun a a spark falling on the roof. The building was much damaged.

HASZARD's GAZETTE.
Wednesday, Angust 20, 1856.
Tus history of the pablice amusemente of

 nd instruetive work. Among the aneients,
here were some in which the providing of

 Nemean and Iothmian games are faimiliar to
very
elassic
reader.
so fanous and imporhant were the firat, thet theirit quadrenini orians relate a faet as having happened duriog certanity of tweintiete undersypopiad by with as muvioh sertainty of being undersiood by aill the eivilili-
wed world, as every modern writer with us, zed wornd , af every modern writer with us,
oould, by giving the date of the year with the
ntmost e erietnes. There is is ase
 ational power whether witilitary nation whoose is the first in the world, whien io known by the
erma ..rogatta $: "$ why we atould bare borrowed the term from ; wortigo woond barary, bor rowed Moso anomaties into which wo have, not now
 sendants in every part of the world, wo that
when you hear of a horse race or a regata,
 ero pleased therefore to soe the advertisement for this species of relaanation from the eererity
of labor for many reasons. (Our insular
 mercial community whother wo. wieh it or or no,
and it is thereforo but natural, that we ohould -ke a pride in footering a tasto for ap purauit
 creating and keeping up such a taste. We to enita, and shail reeerve any further
It may be a valgar weaknese, and if so, we
 well dressed comfortable lookiog men, women for the mounent, and deterormined to to pojog them. erves. And, We Wern gretitited io oor so many rein on any oecencion had
 yeeterday. The day wat ine with the orception pering is oeardo 0 fhelter ind prudued a race

 igtod, and not a foum of aupporior buial; ;and wap for full mill proeented es remarkbly gay






 actionection thind hata dencibio mproement
 goo woill hate he oneo oconledded thit the



Mii Kroolleney th Lieut. Goveroor vialifed



