## pOLAE EXPLOLATION.

The steass whaling bark, Mary and Helen, reoently purchased by the Government for \$100,000, has been taken to Mare Island, to be refitted for the mesreli expedition after the missing Joasnetie, Her whaling outit is to be takes ati of her, thas not laelegineladed in the paroliane. Hy the time the vesanl is refitted at the Navy yard, she will bave eost the Government a good ronad sum. Her actual value was perhaps Bas, 000 to 840,000 , without taking into acoount the contisgency of profite for the aesoon; but, of eours, like all Goverument perchases, two prices had to be paid. Not that the vesenl is not a good one is her way, as she is new, strong and well built. It is probable, however, it will be found that she is much too large for the perpoae intended. Bjeed is of litte objeet where canptimas they do ast make a mile a jear; bot sise is a very important facter where the vesul tas to le worked in narrow leads, and ofteo "tracked" of hasuled along by the men. A ves. sel the sime of the Coririb, which went up last year, woulh be manh more convenient.
The selectien of officers and mes for this es. pedition will be made is Washingtoen, and it is jourrally lelieved that Liest A. G. Jerry, U. 7. Nary, will command the exjedition.

We do not know what Mr. Ierry's experience may have lees, but think that a very eareful solection should be male of sowe oue with exjerienee is Arutie waters. Capt. Hooper, of the Corvin, whe went up last year, would have heen an excellent ohelop, as his researches asd esjeriesec mould have been invaluable. Hisioe pulot, (aph. Buith, now an a whaling voyage, we lelievs, wusld slas have bees a valablle sa. sislast. The assintanoe of obe of the experisaced whaling eaptains would ales be of great eirvice. Dr. W. IL. Dall, of the Seithoneisa Institution, whe hat sjent so many years is east sarvey work in Alaska, on his schoeser, Yolos, would be anseng the livat mes that cuald le fonsal if be winld be willing to go. Hie grest general knawledge, soientifie ability, and experiesee with the carreste, ete, of the oosit, mase him eminesuy itiei, Amovg others, Dient. Sehwatka espedisian. Amosg othars, Iisut Sehwatka the expedition will not be given is charge of nome nus whe has yet to gia his experience in the Aretin se mand valuable time will be low of swich is the case.

Is this onubection it may be stated that amaby the stories carrebt in Yew York is one that $f_{\text {ames }}$ Gerdos llensett is seriously pontemplatine an Antie expeditios., Larry Jerens, whe is is Karape with Sim, has revently writtes to a friend that, while liespett is esfoying himelf grastly as mater of a lunt nomemhere is Kaglasi, he is very much de jreseed and sbriens over the Aretio exjedition Which he eysipped and sent ent in the basue of the lliowh, Ife eoweived it to be his duty to fit est anothas eapelition is serarch of the last ens, sal tahe command of is himealf. Ite has sirvaly telegraphest to stop work on a bew yadit he ovestemplated boiding is this conaticy, and thisk the ingesy he proposed to spenit that way shall he dervited to the lailsing of s vosed tin lo speedily posstrspted wits the view ef eseoshtering fio in the Northern was. At. reads he has hat some ietervives with Sootech shipinillers ss the senbject. Therefors the sews that liessett has serfinaly entered upes this bew Froject may ke expected ot say tins. II is chaseteristie of Hemsett that sxevetion follews dowely spen the heelo of eos. englise.
Sews actee frue Wealisgtes that iwo polar expelitions are to loe fited eat and own borth esrly is the eveing sammed, soder the direetues of Generni Ilases, Ghief 8 gnal Othiver, for pernly, nspetifie perpees Ons te Lady Franilin's lay, is to to sender the commasd of tiasetenant Qreeieg, wet of the noel trasted of. Boers of the Sigaid Corje; the sther will sail
from Ran Francisco and will establlah itself at Point harrow, on the north coast of Alaska. The commanding officer of the seconi expedi. tuos
Pres,
Tine Great Bribue at 8r. Locin-A fow yeare amo, in anti-hridge days, pasengeni were Yerried across the Missianippi and landed on the crowded levee, at great moonvenience. But now, thanks to a great architeet and mechanical
skill, the tired traveler sits is his oomfortable akill, the tired traveler sits in hin comfortable ear until it reaches the depot is the heart of the eity. The upper Miseiseippi has been spaoned by 12 great raifroal bidgos, conting is the ag gregate over $\$ 20,000,000$, and this one at
Louis has cont as mneh as all the other II com bised. This magnificent structure is a monu ment to the engineering nkill of Capt. Jamos B. ment to the engneenng will or How can we deacribe it? Your massive
Eads. Ho pien of granite reach down to a rock foundation, more thas 100 fL . below the surface of the river, and rien 50 if alove the water. These stapendens piers support three immense arches. sach one $/ 00 \mathrm{ft}$, long The archen are composed of chromes ateel taboe suited by a vast network of iros braces. The bridge has two divisions, the apper portion being ased for carriagoways, horse oar tracks and promensles. Through the Lower division runs a double line of ateam rain way tracks, on which 100 daty trains $k^{\circ}$
thundering back and forth. laaving the hridge the trains pluage into a turnel as dark as midaight, and nearly a mile in length, pasaing under the eity to the great Uniou depat. As trains now meet at this great oentral station, and trice a day, it is probably the basient place to be found in the soantry, moruint and evening obe can see no less than a doznh rains standing there rady to depart to all points of the compass.-st. Lowis Tines.
Tun Ginast Garal or Cilima.-Thin canal is Likely to share the tate of the great wall. This vater-way was oonutrueted by Koblai-Khan asd his macosesors of the Yaen reos, and in 600 miles is leogth. There are 10,000 flat-bottomed bosta on this canal, and these are ased in the trasepertation of grain. The Echo atates that this great waterway is an enomous "white elephant," as it costs an enormous amoant every year for repairs, the appropriations there, as elvewhere, not being eatiroly devoted to the purpoen for which they are meant, Junks ary delayed every month while chantels are cut for their pasage. This year, for the tirst time since the construetion of the canal, the grain fromi Nasiling, with the cunsent of the government, has been forwarded by ena, atd this fact has impellel the Peking iuthoritis to ponsider the expedietcy of abandoning the canal as a cotmervial highway.

Kechascmuses or Gikar Itrass,-The eatest of the encraschmests of riven like the Misissippí and Minsouri upon their lanks can oaly be compared with what is taking plave spon the sooth eastern shores of Great Britain by the astion of mariae curretats. Isilod, ow ing ts the difect manoer in which American civers inupinge spon their banks it cortain parts, the destructive ation is, is this cane, atill mare rapid. Several thriviag tow as on the lanks of the two rivers specilind hare witbin the last fow years beea swept away by the efosion of their basks.

Whear Simpazsts va Henoosis Bay, - Frof, Bell, whe has lately returned from Rogland, is guthering information in belalt of the Govers. mend to determise the fessibility of openiug s tivete through Hisdone hay, for the trabsporta tiose of arais frome the Northesect. It is claimed that grain eas be laid down ia liverpoel chesper by the proposed route thas by the all ral noete, the casals Pacite railrosd.

Rullzarp Coxsmectoos yas 1850-The Aniknad Ganitf gives the amount of rilimad ovestroctive is the United Statec for reiroad 7, to1 miles. The total mileage ca Jas, 1,1881 ,
is ant dows an 95,095 miles.

## IRON AND STEEL IN RUSSIA.

The London Ironmonger of January 29 has the following: "The protectionist tendencies of the new Rusaman stiniater of Yinanoe, Mr. Abaza, have caseed a fintter among the ironAbastern and coal mine proprietors of Russia. Confident expectations are expressed that tho ow metal tariff which came into effect on the 13th instant will be only a temporary measure, and that ere long fresh duties will be promulgated, hwing for their object the complete expulsion of English coal and iron from the Russian market. In the article of plg iron the abolition of the exemption practice is a great gain for the native iron-masters, and one would have thought that it would have stimulated them to increased activity. Not only, howover, is Ransia badly nupplied by the native iros-musters to day, but the is even more dependent upon foregn support this January than she was the corresponding period of last year, the demand for irou baving increased in the interval, while the output of the country has dimininhed. The notivity of Americans and others, of which no much was anid in the summer, appears to have completely died away.

For the moment M. Abaza is busy reorganizing his department. When he has got the treasury in order he may be expected to take in hand the taniff, and afterwards puan on to the numerous projects for developing the railways of Itusia. Any development of these mast be of interest to England, as it means possible orden for steel rails and rolling stock. For 1881 several lings are projected.

Krupp is now staying at St. Petersburg, to arrange for a contract for three milion roubles $(\$ 2,000,000)$ for the construction of cannon for Rassia. On this point there has been a furious discussion in the papers, many affirming that the order ought to be given to native firms. To establish the Atrouchoff Steel Works at St. Petersburg, a million was sunk some years ago, and orders for guns have been repeatedly given to the coneern since. Bat the guns cost twice or thries the amonnt paid to Krupp, and are very considerably inferior to his. Hence Russia, in npite of her desires, must continue to give ber contricts to Krupp for the presnt. Krupp's visit to St. Petersburg has been taken advantage of by noveral Finnish railwayn to give him latge orders for steel rails.

The Minister of State Domains han just reported that in the 46 leading provincen of Russia there are 203 works for manufacturing agricultural implements. These employ 6,642 workmen, and turn out machines to the valne of $4,500,000$ ronbles $(\$ 3,000,000)$ a year. In 1875 the import of foreign agrieuliumal machinery was valued at $3,157,000$ roubles. In 1880 it had fallen to $1,628,000$ roubles."

New Theitmeny yor Seamlat Fgybr,-A very interenting experiment was tried by Dr. Ashby, medical officer of health for Grantham (Eagland), in dealing with an outbreak of acarlet fever in that town during the summer of 1578, by meaus of isolating the patienta in tents. He prevailed upon the local authorities to erect a tent hospital on the outakirts of the town, and induced parents to sand their siek there. The result was most sucoesaful. Parenta availed themelves of the tenta largely (their early prejuchice againat them being roadily overcome), the patiente did remarkably well, and the spread of the disease was unquestionably much ourtailed. Altogether the example net was one which deserves to be copied, and showa with what readines the apreading diseases of ehildrea may be dealt with by the exercise of onergy and forethought. - Lancel.

Chlumotb is a New Rolk-It is reported that celluloid has of late been sucoessfully applied in the form of a veneer in the orammenta. tion of furuiture. It is used in this way in im. itation of malachite, or colored marbles, for table tops, and for panels in imitating tortoise-shell and other contly materials.

