##  the curtion of meh, thent

Thè ather, of course, deoies that the two sollde, when in contact, hate but one lurface commot to both, end, on the contrary, affreme that each bas ite own turface, eotirely dialiact and teparate from the other; aod oot ooly $\pm n$. bat ench otcopyitg a place and porition enturely different from the other.
If What while consldering a alution, by Mr. J. A. Parkm, Neto York, of the quarrature of the clrele, In the trulth of whirh oolution he colvcides, that the suthor, is be intimateo, tepan to see the hreath of a lins eod the thieknets ol a aurface. As to thie aolution thell-

Mr. Parker bas, with abold conerption and inguler orminality, epplied it to mone of the antranomical circles, aod obtained romarkable and atart. liog resulea, iadicating that in the mothons and periods of the besrenly bodiss there are perfect eatenalre than bove yet beea anderatood."
Mr. Parker's work in not yet puhlished ; but thin we may eag, that if any one think it improbable chat remarkahla and ntartling re. allse remain to be eapianated in the sphere of modern astrnnamy, he is sery inuch miatiaken. ather eminent estronamernthat Newron's arand law in incapahle of explainina several highly itmportant phennmeneland, iadeed, it is ohrious. on a little connideration, free of mere alavich and unresenning deference to an great an anthnrity, that although the imple lew of wrevitation most be autifully accounte for the more elliprical orbite of the solar astellites, it utterly failo to espain one of the moat glaring peevo llarities of the arhita of the planefs in peneral. namely, their ahsious endency to geometrical circulority. We hare our osn ideas on thia
enrioua subject, but thin is not the place to enrious subject, but thin is not the place to
enter on them: we shall only here remark. without rommitting ourselves either to Mr. Parker's quadrature of the cirele, of to the cep. andy ingenioas and oripioal line of reasoning which Mr. Smith han ent out for himself, in a war that in st least likely to earry commonthin startling relative so merronomieal cireter have been recenily discorered, it in to be hoped it will abed some atrlhing lieht on the no lewa startling defect in entablinbed doctrioe just now bioted ar.
That tha book under notice in not Intended merely far adranced fenmetrictine, hut is calcolated even to altract the attention of theoe bitherto quite oneaught in the acieoce. may be inferred Irom the following pramage, wite which we mutt ennclude :-
"Geometry amoald steape precede erifhnvetic. or rather go hand la hand with it, in a araterm of edoce. ten figgers, I would beyin to treth him genmery for as Is if the mane simple and pierfect of ali aciences, on il in the mant readily comprehended if
properly tache. Through coometry he should properly tuachs. Through geometry he shroald dark and poszting tabyrinths of numbere in lighten up st every seep of his prosrese. Then Fnold the upilsoma and blind path of arixhmetic bucome brisht end pletatint rosed, and her myalle aml varue e3prensions open to him full of elear and lieantiful
mpening. Theo would he mee and comprehend meaning. Theo would he mee and compretend
what in meant tyy thnse perplexing, enigmmical What in meant tyy those perplexing: enigmmical would the hoy, 'with thiaing moralng face, no longer be eep ' creping like smail anwillingty to nchool," but toipeing with a lisht heart, and singing for joy."

## sitiorclianta

Bakamell': Copyint Teleamaph.We enme time nince gave ath neronrit of a vefy ingenious incention, by meany of which an In. diridasal writing at nere estermity of che comancry, cen trensmit, thrmugh a singte teleresphie wire, a perfect fite-witrile of what he has written, oo that it ahall nppear In courne of lave rainutct, though it were whole page or moro, at the ntherextremity of the line, and at coutse at howerer aretin dhatere. We ate glad to perceive that thia hesu-ideal of the teligraphle Wis had fearod that it had warment ostit to be move perfect in theory than atrimable In prie-
exbibited II at the Ransell Inatitation, Graat Coramestreet, with corisiderthle saceana. The priokiple, as many of our readere map remember, continta mainaly to the wioding of an fron polni round eylinder as each extremity of the line of telegraph; the cylioder fo the one cane belog covered with s sheet of tiofoil written on wth a non-cooductiog ink, while In the other it is covered with aheet of paper chymuleall? prepared, so that the iroo pointa in electrical action (ai both rylladera turn aimmiknenur)?. regulated in synchronoon time by electromaknetiam) trace theip apparent course round the eplinuler apirally: the nonenndncting idtervaln, at they pass orer the ink in the ooe enare, belog marked and denoted in the nther, by blank or white ioteriale in a blue spiral. 80 that an exact copy of the vriting appears in *hite charseters on a bloe ground, and distinetis legitale. The paper can alao he prepared to as only offereards to when the writing, and thos to insure secrecy betreen correspondentr.
Fixtarta in Aherica. - When dexpotiom or anarehs, or any af the rapid opi insinious elemenis of destruction hegin to sap the foundatinna of a nation'n prosperitr. it rill quickly be reen in the lanenor and decllne of the fine arte, In praloting, neulpisre, apchiterture, and engraving. Amerien is a young and rining repolylic, riaing in atrength. jopulatinn, wealih, and the mechanical area. Should she nnt-is the not-aloo plaing, and rapidly, in her eneouragement of the Ane artis? Thirty prart ago (lutt a day in a nation's life) there raik not - collection n! pirturea in the $:$ nited States worthy nf being ealled n "gallerr." Now we can cosul forty in the Stotes of Sex Yink Pennayleonin, and Ohin, and in eachan "Art. Union." In the most fnurinhing conditinn. The benclency of the Ane arts is from the olt) to the ne world. Wealth paiben amand it. hy anational atiraction, the finest apecimena of the eavel. the burin, and the chimel, and emicrating weath and taste is constantly aending to our ahores gems of art which meet foll appreciation from our trarel-loring and quick ides-catching countrymen. The lore of pietures is a true and a oatural one. The red man rudely palute bis hatelea on hie mben, or carrea them on the trunk $n$ n a tree. The wentern ploneer, for mant of bettep, deckn the walle of hie Iog-cebin mith handhill hradinge. newspaper wood-cuta, or circus wild heav exhllitions. If good pletnres of gaod engraving" eannot be obtained, mlarrable daubs. or immoral actrawh, trill aupple this demand. A gand pieture, either palnted or engraren, in a morsl learon-a ailent, hus a prowifal one.Buffolo Adertiser.

Hotar Drcorationg Viessa.-From Sienna, rape the Expmaitor, accounts hase reachod un of a magnificent ant coutly contri. bution, whleh a fumitore manufacturee of that town is sending for the 'ol Eshlthition. I will ennsimt of frus momm of a palaer, each appmpriaply furnished and decorated. We are not ret at liberty in gire the name of the manufacturer, nr any detailed accoint of the furniture. The materinl is a preculiar Indian wool, rather lighter in colour than rospoond. and it in actulpured in the mont artintic manner after the champet flesigns of eninent ertists. The bedatend alonf, which is sleady enm.
 ahout $1.2 \mathrm{~mm}^{2}$. and the cost nl the other ariclea is in promortion. The manufacturer will be in Lancion in a moek or an luarrange with the commianlaners for the mpare lif will require, which will. of counsr, be conainerable. It his contribution will comprehend all the requiremenia fine the four princijal rnome of a palase in astyle or the armom magnifieente. The zentleman is one of the members of the Vienna enmmitre.
Stari, without Pig-inom.-An inspation han treen matented by Mr. Heath for the manufacmre $n!$ steel fonm irm pminced direelly fmm the ore withnus heing broaght into she atate nf ewat-imn. (tre, as unanlly redurel) in metul, it mized with a amall porlion of chlueide of nxide of manememe, and worde enal int fir tar, or other eherp cathooaerous mattet, sind hesterd to . Wrelding heat : it is shen compreasent low bloom, w-beaved and ahingled, hamuered, or rolled into bare in the nतdinaty way; and the ber-iron thus produced in eoarented twoo meat by way of the voul processea.

8aw-Mill drivenat'Amentax Wellan Withert hood (saye so Ampricao paper": Dr Withera has a naw-mill whlch in drleen by water suppled from wiz artesisn welle, situased on the premisee, at dintancet from the mill rarging from mome so in 2no rards, ranging in depth from 3 fho in near! ${ }^{\prime} 600$ feet, and affording nearly 1,000 galleas per minute. The witer flow from all the wells to a common renerroir, and in converes thence to the will by an aqueduct under pround. and ia convered into a bax on penermi. rihence it falls ou a reaction-wheel 411 feet lelow, and thus pnes the milll ir motion. Aher acting on this wheel, the water is ennvered to the river by means of a tunnel, cut thrimgh a limeatone rock 240 fret in lene:th, noul. at the higheot point, upinards of $3 n$ feet in depth. The tunnel is 5 feet 8 incher deps, bs 4 sid.. An The water in nowhre cibible under the mill, and empties into the rwer at a point no: seen from thr mill, nome 5 odd fee: helow the top of the hluff, the mill; when in motion. presenth to the oheerrer the appearance al seffacting machinery
Hallmat Jottisge.-Sincr aut peoper einit to Furnon a great facil.ty uf acesat 20 its archlefetural and other ateractions liaw heen afforded be thr apening ni : be Whicharen onil Fumen. Junctinn Ruilway theroughous is the Furnesa line, nrar Brnughion, in Furness, which taok place na Tuendar in has week, When the last partion of nt Iroin lbont: qu the junction ma. fremille nopered. The lemptat of line is in all thirtrotonr miles, an: :here are stapisus at S.. Meve. Detherion. Jiraywinnen, Sellafield, Seascalc. I)plge. Ravenglawn, Eut: mpalo, and Sylecmft. The -nginerer wal Mr. Ilees. and Mewis. Ioplifes and Feil were the contractors, tu thom much praine hat been Elven, The rai? way rommunication hesween Birkenheall and Manches:er has hren enmplected hy the opening of the Chester and Warringtno banch of the llirienfurad. Laneaahire. and Chenhire junctinn tine nn Thuraday is lant week. - Meacre. lapke anel E.rington, enginerrs. hare examined the lominde railwar rauke, and tepore that the jine may noer le carmed out for empideribly Jeas than $3 n 0$ onvip. the mpigenai estumate of triü. - We hrar: hat a paxtenger caroinge of repy lasge dimension. hutile entirele of imon, and eapable of containing frompixit to secenty jergons. ha* bren rimb structed under the directian of 11 P. Nefon neid, th: asperintentent of the lommative de. farment of the snuthern dirnion u! the lans. don and Nortl, Weatron Ralltay, The earriagr, according th the Rroluray Reened. han been pan espretistentalls or the tine what the most mathesctor! pesul:s, Drie great adrantage of such a rapringe, or traio if we thay un call it, will be, that th will
offord every hacitit, to the marment of the guarils thriughomi the teain. as Iong innisted on in this journal, and at lenzith taken upend strong': recolinended in the ratlear companisa hy the Katloray Conmmpionets.

Expeajuest: us lrikil Prat-From 36.30 c tne of prat, at in. pier ton, the follow. ing produce. is is maid. bin bem realued


The perfit, eiter rimerbeting repenpers of the nulpharic acidi used in the manufncture. the
 is mated to be 11 tins). or more than livi per ernt. on the notlar.
Cilang Sllades. - The laident rint producel TEG lately hown at bliemingham by an Kingluah ninomman. It as fig incnes bes 261 inches in diametre, and enntaica nearly 40 lbe. of metal. U'nal late!s, a fienehman whas ennaidered the most phallul norkmen io the employment of Mewsra. Chance, in ahose manafietory the aliade alludel to han been blown. This man earna on bewe than of. aWrek. gecording in a enrtempmolent in the monster "shade." A serrei in blowing great gas bublien was latela dencribed in Tis Hoiloge. It comuines mimply in mnistenlog the mouth with a litile nater before hlowingThe water ts converted, io the Interine of the drop, into steam, which ratig ade the breath in exterdiog the dimentions of the "hell."

