


Thè author, of courut, denies that the two sollds, when in contact, hate but one burface commot to both, sud, on the contrary, affrme that each bat ite own furface, entirely diatiact and teparate from the other; and not only an, bot ench otcuptitas a place and porition entirely differens from the othet.
It whe while considering i eblation, by Mr. . A Papkw, New York, of the quadrature of the circle, In the truth of which oolution he colibeides, that the author, as be intimates, tran to see the hreadth of a line and the bicknest ol $\frac{1}{2}$ surface. As to this solution thelf-

- Mr. Parker han with a bold coneeption and ingular oricinality, applied it to aone of the atro. nomical cireles. and obtainod romarkable and atert. ligg reaules, iadicating that in the motions and periods of the beavenly bodies there are perffet matbematical relation moch more wonderfal and extensire than hate yet been anderatood."

Mr. Parker't work is not yet published; but thin we may may, that if eny one think it improbable that remarkahie and ntartling re. culta remnin to be expineated in the aphere of modern axirnnomy, be if rery much mivtiken. It is now admitied by Sir Juhn Hernethell and other eminent estronomersthat Newron's Erand law in incapable of explaining several highly itmportant phenomens: and, iadeed, it is ohrious. on a livle consideration, free of mere alavish and unretaming deference to on great an anthnrity, that although the nimple taw of are vilation most beautifully accounte for the more elliptical orbite of the solap satellitee, it utterly raile to expain one of the mont plaring pectoliapities of the arhits of the planets in peneral. namely, their ohrious tendency to geometrical circularify. We have our own ideas on this enrious subject, but thin is not the place to enter on them: wo shall only here remark without committing ourselves either to Mr. Parker's quadrature of the cirele, of on the cer. tainly ingenious and original line of ressoning which Mr. Bmith has cut out for himself, in a way that is at least likely to carry common. sence minds elong with him,--that if any thine etartling relative to merronomical circter have been recently discovered, it in to be hoped it will shed eorne striming light on the no lens sthrtling Aefect in ensablished doctrine just now hinted at.
That the book inder notice in not Intended merely for advanced tenmetridane, hut is calcolated even to attraet the attention of thome hitherto quite untaught in the science. may be inferred from the following pasage, with which we muat ennclude :-
" Geometry thoahl alway precede arithnoetie. or ratber go hand in hand with it, in ansutem of evocos. tion. At mos as a ebild has learned to count hit ten fingers, I would begin to trach him geometry; for as it is the ramer simple and prefeest of aif properly toughs. Thmogh neometry he should propern all thatanhme. Then would he find the dark and puzzling tabyrinths of numbers to lighten up at every seep of his progrem. Then would the tivilomice and blind peth of arichmetic bueorme bright and pleatant rond. and her myalle ant varue exprencions open to him full of clear and leastiful
mpaning. Thea would ha mee and compretiend meaning. Thea mould he mee and eompretend
whut is meant by those perplesing, eaigmatical Whut in meant by those perplexing, eaigmatical would the thoy, "with thising morning faee," no longer be oetn ' creeping life emil anwillingty to achool,', but tripping with a lighe heort, and ainging for joy."

## fitiscellanea.

Batrwrle'e Copyino Teleamaph.We nnme time eince gave on merowrit of a vefy ingenious inrention, bremen of which an individual writing at nne estremity of che comat. bry, can Iransmith through a aingto telerraphie wire, a perfect fice-simile of what he has writien, oo that it thall appear in course of levi minuted, though it were whole page or morb, at the ather extremity of the line, anol of coutse at howerer greatia distance. We are glad to perceive that this bean-ideal of the teligraphle Wis had fearod that is mad curwerl oust to bo more perfect in theory than atrimable In prece fiee. Dut on Wedsesday leat Mr. Batemell
exhibited It at the Rumsell Inatitation, Greal Coram-atreet, with corisiderthle auceest. The priseliple, as many of our readera may remem. ber, consiste mainly In thę wiadine of an iron poini round a cylinder at each extremity of the line of telegraph; the cylinder in the one zase beltor covered with a sheet of tinfoil written on Wth a non-conducting ink, while in the other it ic corered with a theet of paper chymienlly prepared, so that the iron points in electrical attion (ai both rylindera turn simalanenurly. requiated in symehronons time by electro magnetinm) trate theip apparent course mound the tylinitern apirally: the nonconineting invervaln, sat they pans orer the ink in the one eame, being marked and denoted in the other, by blank or white intervala in a blue spiral. so that an exact copy of the writing appears in Thite characters on a bloe ground, and dis. tinetly legible. The paper can aloo he prepared to as only aftermards so sher the writing, and thas to insure secrecy betmeen orrespondenti.
Fise.Arta in Aheaica.- When dexpotiem or anarehy, or any nf the rapid of insidious elementa of destruction hegin to sap the foundationn of a nation's prosperity, it mill quiekly be seen in the langenor and decline of the fine arte, in paioting, sculpiure, architerture, and engraving. Ameries is a poung and rining republic, riaing in strength, population. wealith, and the mechanical arta. Should she nnt-is phe not-alwo rising, and rapidly, in hes eneouragement of the fine arts? Thirty reara ago (hue a day in a notion's life) there wae not collection of picturee in the "nited Staten worthy of being called a "' gallery." Now we can count forty in the Ststes of Nex York, Pennsylranis. and Ohin, and in each an "Art. Union." in the most flourinhing conditinn The bendency of the Ane arts is from the old to the new world. Wealth paither a mund it, hy a national attraction, the finest apecimena of the etwel. the burin, and the ehisel, and emigrating weath and taste is constansly sending to our whores gems of art which meet is fril appreciation from our (rarel-loring and quick idea-catehing countrymen. The love of pietures is a true and a natural one. The red man radely palate bis hattles on his mber, or carren them on the trunk $n!$ a trec. The wentern pioneet, for want of better, deckn the walle of his Ime-cabin rith handbill heading*. newsplaper wrod.cuta. or circus wild beas exhibitions. If good pictures or good engracing" cannot be obtained. miaprable dauhs. or immoral scrawla, will enpple this demand. A good pieture, either painted or engravert, in a maral lesaon-n silent, hus a prowerful one.Buff alo Adrertiser.

Horsar Drcoration. Viensa.-From Vienns, safe the Expmsitor, accounts hare reachari un of a magnificent and coutly contribution. which a furmitore manufacturer of that town is sending for she '\$1 Exhibition. It will sonsint of four moms of a malace, each appropriatel! furmished and decorated. We are not ret at liberty in gire the name of the manufacturer, ne ony detailed account of the furniture. The material is a preculiar Indian woul, rather lighter in molour than rosewoond. and it in aculpured in the most artistic mannep after the champat derigns of eminent artiots. The bedstead alnné, which is aiready enm. fleted, crssx no leme a sum than 1:2,noogulden. ahout 1.20 min ., and the cost of the other anicles in in proportion. The manufacturer will be in London in a moek or no tu arrange with the enmmisninners for the spnce be mill require, which will. of moure, be continterable. an hit contribution will comprehend all the requiremenis for the four principal roome of a palare in a style of the rimom magnificence. The
gentiemnn is one of the members of the Eentleminn
enmmitte.
Steme. withoct Pig.igox.-Aninvention han treen patented by Mr. Heath for the manuferinre ol steel from irom pindnced directly fmm the ore without heina brought into the ruate nf met-imn. Ore, as usually reduced to mmul, is mixed with a amall porlion of chmorite of nride of manteneme, and conde enal ni fir iar, of other ehetp carbonaceove matter, and hested to - Weldine heat: it is then comprensut tow. bloom, to-hented and aningled, hammered or molled into bare in the ordinaty way; and the bar-inom thut produced lo eonsertod tato meed by may of the

8aw. Mill detivemariAmpajas Wellan - At Mill wood (saye an American paper! Dr Withers has a mam-mill which is driren by water supplied from mis artexisn welle, situmed on the premisee, at dintances from the mil! rarting from mome so in sem rards, renging in depith from 3 (h) in near! 600 feet, and afording nearly 1.000 galleme per minuteThe water flowe from all the wells to $a$ common reserroir, and is conreyed thence to the will by an aqueduct under ground. and in conreyed islo a bex en resermio. whence it falls on a peaction. Wheel at1 fept below, and thus puts the mlll ir, motion. Aher aeting on this wheel, the watep is monceyed to the river by means of a tunnel, cut thratust a limertane rock 240 feet in lene:h, noll, at the higheat point, uprards of $3 n$ feet in depth. The tunnel in 5 leet 8 jnches depp, br 4 aid. As the water is nowhpre visible under the mill, and emplies into the ruser at a point no: seen fram the mill, nome 50 odd fre: helow the top of the hluft, the mill, when in motion. presenth to the ohserter the appearance of self-acting machinery

Pailimar Jottinge. - Since nup reont rinit to Fupnest a great facikse of aceens en its arehlteetursl and ather aterictinas had heen affordent ly the npening oi :he Whapharen and Fumene Junction Ruilany shfouchout is the Furnese line, near Broushion, in Furness. which took place on Tues:dar in last week, When the last partion of it from lionoth: in the junction wan formalle nipered. The leapis of line is in all threte-four miles, and thert are statione st S., Mies. Netherinn. Brayu: Aner,
Sellafield, Seascals. Driga. Ravengamp, Ev: mpals. and Sylecmft. The +ngineer wan Mi Ilres, and Menser. Jonding ant Fell were the onntractors, to whom :nuch praime hat been klven.-The pailmar esmmunication between Biekentead and slancherser has heen enmplesed ty the opening of the Chester and Warringtn b hanch of the liripnhtard. Lanca. ahire, and Cheshire junction !ine an Thurnday is last wrek.-Messre. lanke and F.rinyton engineers. hare examined the 1betsite railway route, and tepore that the jine roay now le carried nus for emsideribly lene than 3 no.onof. the oriminai estumate of $1=$ tù. - We hear :hat a pannenger carrizge of refy lasate dimensionn. hutile entirely of imn, and cagable of consaining from maxir to serenty bergons, bas brea ponstructed under the direction of MP. Moporn. noil, the euperintendent of the dommasure depramment of the snatheen dirision of the lann don and Xorl, Wellern Rallayy, The carriage, according to the Rnilvay Recard, han been pun esperienentallt on the fine mith the most sarixfactory resulis. Ore great adrantage of such a rapringe, ar train, if we thay sn ca!! it, will he, that it will aford every facilt:y to the marement of the guards thriughout the train. as bong insisted on in this journal, and at lentith taken up and strone:'y recmamended in the rallwar com panien hr the Kalwar Commssioners.

Kxprinazets os lrifil Prat.-From 36,300 tone of prat at as. per ton, the follow. ing moduce, is is saild. bas been realued -


The profit, ziter sleducting rxpmons of the sulpharic arict used tri the manufacture the
 is alated to be 11.! (1) 1 . or more than lla ; per cent. on the outlar
(icases Shade: - The lapgest refer produeed war bately blown as Birmuncham be an Einglinh mokman. It az fig mothea ber 261 inches in dianerpe, and contaires nearty 45 Jus. of metal. Unal late:r. I Firnehman way conmdered the most whilut workinan io the employment of Mewsre. Chance in whase manafictory the aliade slluded to has been blown. Thig man earna dy lenc than al. ewrek. arcording in a errtempondent of the Jhily Ner: orlim gires the donensions of this monater "shade." A seerry in blowing great pias bubthen was latels deneribed in Thi Huilores. It comvints nimply in moisteniog the moust with a little niater before blowingThe mater to ronverted, in the interior of the drop, into stesm, which vatily and the breath it exterdiog the dimensions of the "hell."

