tank, and iocurred a ground-reat, and now, they were required at a great expense to dig up all this and alter it. Ao thin ras eo, he required a suceinct history of the case $\rightarrow$ the failure of the pipes, and the reason of the
fadure. - t was accordangly urdered that this faulure.- It was accordungly ordered that this should be prepared.

We have had a shower of Jettern on the nub. ject. jacluding statement reapecting Croyton and Rugby, and must find an oppertuaity to look at the whole together.

## AERIAL SaVIGATIOs:

\section*{Flying macilisky ast alk

## RSGINE:RING.

## RSGINE:RING.

Tue first partially successful attempis have now been made to olfaio such do:amun over the air as man bas long esercised in shipping over ine ocean; and althoupha still in a very rudamental state, there is every proapect of a
complete accomplishment of thig arand desile. complete accomplishment of this arand desile.
ratum, of which we bave alwasib been sangurae: more especially no somn as the steam or other engine could be made practically avail. able.

At the Harisian llippodrome, according to Galignani, an esperment in aerial navigation recently louk place. The aerostatic marbine, which was to ascend on thim occasion, is the anvention of M. Gutfurd: 1118 on whlong cyhiouler, momewhat in the form of a fiah, of abous 1 so feet is lengit, and abous 20 leet in diameter at its thickeas part, and gradually :aperiag of at both eade. The directing apparatus it a rery small and, it in and, beau-sifully-finighed steam-engrae, setting in motion ${ }^{3}$ propeller, resembling in form the screw used in steam-veosels: this in suspended as about :o feet beneath the balloon, from a long boom. which is attached to it, and which suppurts, it tos estremity. a triangular sail. The prelimiaary preparationa having been completed, the machine rose and went rapidly lefore the mind. Suddenly, by the action of the apparatun, itil course appeared to receive a clieck, and is alowly veered round, thus proving nome command of the aeronant over bia aerial vessel. It then. however, ateadily and grandually pro. ceeded in the direction of the wind, uatil lons in the diatance.

A first step in the geience of practical aeromotinn, bowever, bas thus been made: snd had the propeller, which seemg to bace been a very inetlicient instrument, been better adapted to its new uses, duuhs. less something more than mete turning might have leen is this case effected. But. in truth, this propeller seema to beve been noshing more than a mere steering apparatue, and the engine may be waid to have had oo proper apparatus at all! through which to exert its force in sucla an eleinent ay the air.
a somewhat better and more hopeful idea, so fas as remards screw propelling, appeara to hare been entertained io the design of a flying ahip now on the ntocks at llobsken, near New lork. In this case the floats ur oblong cglioders containing the gas appear to be con. terted into a sort of serew propellers themselves, and are intended to revolve lyy meann of atrapa, communicating to them the power of a steamengine auspended from them below, along wilth the ear which is 64 fres in length, very aharp at either end; width; 6 feet; height, 6 leet $t$ inches ; the whole composed of a strong light wooden frame, covered with eanias, sith
doors and alass windown. The boilers are of copper, on the tubular plan, and occupy a npace equad to 4 cubic feet. The eogines are said to be very perfect, beiog composed of gun metal and cast steel : they are of twelre-borses power, and are to work 20 incbes ntroke sisty times per minute, and will give 400 revoluifons of the floats, which are placed on a subutsntial framework on the top of the car. There io sufficient room fortwenty. five passengern, with fuel for four bourt. The float is 260 feet in leagth, of a cigar-like ohape, 2t feet diameter
in tha cenite, and nas a gas capacisy equal fo in tha centre, and nas a gas capacisy equal to equal to 6,500 tha. The entire weight of the cys, finath, and tixture, is abnut $t, 000 \mathrm{lbs}$. leaving $2,500 \mathrm{Jbm}$, surplus. It is denigoed 10 ran abous 200 feet above the aurface of the
earth, at a rate of apeed varying from 25 to 50 miles per bour. The engides are a curioaity, heir weight being 18! lbs. Ther are to be worked with coke and npirits of wine. The inventor of this marbine in a Mr. Rohjohn. He has es pencled 5,000 dullarn alreads on his pro. ject, and bas thus eatirely eshauated his means. and awaity the help of soroc sanguine capitaliat to enable lito to wing hia way to California or lse where.
A still farther and more decided step in ad. vance than that already sade at the Hippodrome, Paris, haz quite recently, it seems, been mate on the French frontier, at Lucbon, by an aeronaut named Malés, who is said to bare actually travelled live to six miles in a detinite direction andl hack within malf an hour to the spet whence be oet ous, heridee whecling in the air, and making a tour round the basin of Luchon and adjuining villayes. In this case no enxine was used, bur if the report of $\mathbf{N}$. Mules's succenn be true, bis apparatus ought to he regarded aa , in some sense, a mudel, by means of which to remedy the delecte of M. Giffurd's inachine.
The apparatue of N. Molis is thus deacribed a the Pans Constiftotionat: - "It conniuted of a balloon ol an osud riape, inflated with hadrogen pas, of merely nufticient size to oup. port bie weught, and that of the artucles he had with him, and at the aame time so bave an ascensional poter. To the net-work of the balloon was sunpended a small table, on which Muléa lay on his belly, has back beiog also secured to the nes-work. To each of his legs between the knee and the onstep was attached a kind of umbrelia, acting freely on ita aticki, and the opening of the silk of which nas turned outwards. In each hand wal a sort of hand-ucreen of wilk, opening with binges, and espanding or contracting at will. I rope from the vaive of the balloun was placed round his acek, and round hia body was a belt containing sand, and abrout eir or seven pound of shot a ballast. When the signal for letting ao wras made, the balloon nase mently to beight of about 200 yardd. The aeronaut then began to make use of bis tweans of impulsion. His legs were alternately crossed, and then put out at full length, the first motion clusing, the second openigg the umbrella, piving a puint d'appui upon a large surface of compressed air, anll cauaing the balloun to adrance, whilat the arms were
noving in the same direction. l'be atmo. sphere being at this time calin, the acronau found no difficulty in directing himaelf in a strajuht line on the asis of the valley towards the norith. and the speed appeared to increase progresicely an the appiaratus worked better. Returning to his starting-point, he came lo the ground slowly in the same meadow from whence be had risen. It as more easy io conceive than express the enthusiasm and es. citement of the crowd of persons who had assembled. The aeronsut was conducted in triumph to his residence, and he has äñ nounced a second ascent for Sunday nest. It is to be hoped that there will be then a little wind, in order to aseertain whether that will not prove an insurmountable obntacle. Intonio Mnhéw bas assured us that be has the means of over. coming any difficulty of that sort, as readily as the beat reasel on the ocean.'

We hope we shall hear no more of such absurd exhibitions as those of bate infunted from Paris. "Ihe only good they have latterly done. perhaps, is so fambliarise the mind with the idea of a qunrter to a balf hundred people being tranmported tbrough the sir in one machine. The American one, which is to carry twenty-five pasengers, is thus far no norelty. As for the mancuures of acrobata and such ike eshibitions, they are still worse than the auspension of mere cows and hurses, snd in the same rank must be placed a recent project for aveent while merely hulding on by the keeper of a magnel hung below the car.

Mr. Jab. Fillans. Sclilitor.-ile are
corry to have to announce the death of thia able aculptor. We have a atrong recollection of a noble head of Profensor W'ilson executed of a nob
by bim.

IMPROVED DWELLING- HOUSES FOR THE WORKING CLASSES AT NOT tingllam.
Abciet two aerea of building ground hare been purchased at Notingham by an aisco cion formed soma time suce for the iroprase ment uf dwellings for the working clasees, ahb building operations are to be immedianels commenced. Tenants are already apleating before a single otone has been luid. Thie dwellinge at present inlabited by the worhes classes in Nottinghom are much overctuwhed and exceedingly defective in every reaper: while the rente are bigh, and the poos pent are of see even obliged to pay bonusea for its privilegt nf entry. The Noffingham Gumpdive thus speaks uf the plann on which the nee dwellings are so be erected:-"0"he firot ates akeñ was to advertise for plans fop iwn de seriptuns of houses-one kiad to cont is. 15 he erection, and the other 1001 . l'wo prizes -one of 201 . and the otber of $110,-$ were of plans were sent in. At length it nolved to award the first praze to Menstr (\% and $A$. Dennep. mad tha mecond to Mr. S
 two stories in heiglat. Each cuntaing top bed-pover, one parlour, a kitchen and pautre. acullery, and a place for fual, while kelued tbere in a separate yard, with pfivy and o:bes conveniences. The exterior is propused ol h eseculed in stueco with eement dressing. rooms are large and airy: provision is mis? or a regular and copiouz supply of thas and soft water: the rentilating arpangenem: are escellent, as are aloo those for wastung at. other domentic operations. The ground ; it of the 1 col. housea is preciaely the sare in that of the othera, the only difference bena that the rooms will be a litue smaller: other resperts the plans are indenucala diown : the minutest detail. "pon the ground then: © the mure coatly bouses, in Mr. Nortals ed signs, shere are an entrance lubly, a parlouf.a kitchen, a pantry and place for fuel, wath: enclosed yard of the back. The razab story sonsists of four bed.romens
houses are proposed to be set back from otreet, there is thus allawed a small iss 3 s ? ? eaeh, of about 10 feet in width, enclused in iron pallisade. Pach kitcben is provided wit a copper and suak stoce, with water tsp cwe and also with a moderate-sized range. Murk tion. The plan of the toot louses Tofes from :lie above ohly in the ditanialien sye : the kitchenn, and in each dwellias

## only thece inatead of four bed-roums.

OUR ESTATE AGENTS OF IW
Masy of your readers imagine the dace of the (ieorge Robinn atyle of adverising li, wse property are gone for ever, but an occansarat peruss) proves that there yet rematn a fesw was
endeavour to tread worthily in the foosstris wh heir great departed leader. The Tinas a and daya siace contained some choice tit biss bas: ought to lue remernibered and cheriblied bry your readern as quetations that cannot fal to bo useful wo them when obliged to refurt to " nuff." The fulluwing are all fran a " Wras. nu agency office, whose aim it by ad wice sen yotem, and confuz of intelligence, to ace pat plinh the utmont winhes of his applicanis. and therefore arc "the special niew yiat annoulicernents subjoined: " First.". 1 ssethy suburban semi-prorincial residence.
near the incomparable pesult
hat five-arehed stone bridge apanning yead wide, refreshing river, neandering with ma yestr course through a fertice hoppy ralley till li, in noodland rural scenery.
enjoyoble home contains

- . calegory of erectiona
aregory of erectiona . parden admo. overnowering with brilliancy and fragrance bawn of beauteous herbaye
kutchen garden burdened with frutize, anll cumbronn in regetative productions !" siecond - Agentleman's cotigga * . withaco:v in full milk." 'l'hird, "A amall country seal bi
aituate on the riee of a picturesque

