## A VILIAGE RFSIDENCR.

In the amhitectoral Aerigns whidh we liave presented during the last year we have made variety the standard of judgment in selectign, becanse of the variety of tastes and necessition which must prevail in a wide circle of readers. We have given cottages of most simple desigo and amall cont and mansions of oonsiderable pretension and expense. At this time westrike a mean between the two and give a drawing of a residence of moderate cont and one well adapted to erection in some of the many thriving villages of our Atate.

The design is by J. H. Hoble \& Sons, of Philadelphis, and, an may be seen by the picture, it in well contrivel to catch sunilight, a quality which lovers of health mont highly prize, ft is intended to be built of frame, covered with diagonal sheathing boards and weather boarded. If one desires an extra waria boune it will be well to cover the sheathing with tarred build. ing paper before patting on the exterior board. ing. but both this and the diagonal sheathing may be omitted if it is desired to cheapen the construction as much as possible. Oar equable elimate makes this thinner covering admissible, althoneth the more perfect enelosure is desirable severtheless. The Fresch moof is desigued to be covered with ornamental siates, but shingles carefally painted oould be substituted, and would be botter if the frame is to be weakened by onitting the doable boarding.
Hy reference to the groand plans and measuremente below it will be seen that the rooms are of good size and well arranged for besaty of isterior. The following are the sizes and locations of the rooms :

Yirst stary: A, porch; P, parlor, 12 by 15 feet; $D$, diniog room, 12 by ta feet 8 inches: K, kitchen 12 by 12 feet; $S$, seullery, 10 by 12 feet.
Second story : $P G$, prineipal ulazmber, 12 by is feet! $H$, hall; 0 , chambers, II feet 4 inches by i2 feet; $I f \dot{k}$, bath room, 7 feet 6 wehes by 12 leet; $S R$, store-room, 4 by 12 feet.
The third atory, within the French roof, can be finished into nest chatiliers, and we presume the arehitect intends to locate there the closeta which he has omitted on the chief chamber flear. The "store-roem," on the second floor, will, however, serve for eloset purposes, and it is large enough to give the good wife room for all her stored treasures.

Srideas Khlisu Thoet,-Seth Green, the noted pisiculturiat, has been for a loag time puzaled by the terrible deatruction of very amall troat, and his investigations have at length resulted ss follows: There is a small worn which is a favarite food of trout and masyy uther kinds of tish. This worm is one of the greatest enemies which the young fry have. It spisis a web is the water to catch young fish, just as a spider does op land to catch flies. I have sees them make the web sud take the fish. The web is as perfect as that of the spiler, and as much mechanical ingenaity is displayed in its owsstruetions, it is made as quickly and in the same way as a spider's, by fasteaing the threals at different poiats, and going hack and forth until the wob is finished. The threads are not otropg enough to hold the young trout after the umblical nae is absorted, but the web will stiok to the fins and get around the head and gills. and soon kills the flah. I have often seen if oo the young troet, abd it has been a groat mys: tery and caused me masy bours, days and weeks of wouler to find out what was woand around the hrads and fins of my young trout and killed them. I did not find oot untif lately, while wateking reeently hatched shitetish, These are mach smaller thas the trout when they begia to swim, and they were caught and held by the wreh I fosuad tea small whitefish casght is one web is oee night. The web was speni in a little whitellah preserve isto which Thad pat 100 young fiah."

## BRAINS.

Brains, though rare, are not distributed by any known rule among a particular class of people. A Stephenson may be bora in the cottage of a common miner, and rise to teach the world the science of engizeering. A Franklin may force his way from a printer's case to the position of a great stateaman and a great phynicist. Opportunities are what are required, and lacking the opportunity there would not have been any Stephenson nor any Franklin. Comparatively few men of ability are born every ycar, but they are as likely, perhapm more likely, to be found in the hamble dwelling as in the palace. The important problem for any country is, how to utilize its most valuable raw material so as to get the greatest possible effect from it. In the case of brains the answer is simples give their owners an opportunity to get an education by which their mental faculties caa be afforied an opportunity of being used to
the cities-otherwise the mind finds its surroundingn uncongenfa! and is dwaried. Like a tree transplanted to an unaccustomed soil and climate it withers and dies, or lingers through a sickly exiatence. Preaching about the evils that beset commanities will do no good. Prac-
tical common sense must apply a remedy. tical common sense must apply a remedy.
Tin Plate Manuyacture.-The oonsumption of tin, or' more properly tinned iron, conts thin country every year nearly $\$ 20,000,000$, of which at least $\$ 15,000,000$ is for labor which ought to be paid to American workmen. Some progress has been made in this industry in New York city. The Monitor Tin Plate Company, of New York, occupies a building in Horatio stroet, where the tinning is done. The iron is rolled in Pittaburg, Pa . The sheeta are rolled in the ordinary way, then out or sheared to sixo and immersed in a pickling bath. They are then cold-rolled again, annealed and piekled, and put into baths of Ruasian tallow or palm oil. Then they pass through several baths of tin melted at a high temperature and again through sawdust and bran to cleanse the surface. Finally they are polished with lamb's.

dgsign for a village residinge with a french roor.
alrantage. Bring out their natural abilitioa If the boys about a mine or in industrial commuaities, instrad of spetding their leisure hours is taverns or even worse places of rekort, listcuing to the harangues of demagogues upou the wrongs of the workingmen, should utilize them in a sehool where a techaval education could be imparted, they would with an increase of knowledge take more intervat is the proaperity of the ounntry, and have more confidence in the stalility of government, and believe that there is a futare open to them worth working for. When witnessing the atter demoralization of many of oar youth, who does not recall the wonls of Dickees, "There is not one of these poot creaturee bat sows a harvest that mankind must reap" "The poor working classea bave their «rongh, but is a grat mrauare they are lerought about by the soiden elevation of some of thirir own sumiker using opprosion, through deficient cducatior, or by their owa excesace of inidolence.
Betweca practical foremen and educated eagineers there exists a jealouny which must be wiped out by the inenfation of a higher stuca. tion and opportanities to develop The repotarces of the locality where is the datnicile, the hoter, mant govern the edacational cournemines in a miniag region-atriculture in a farming rogion-and eommopolitas stulies in
wool cuffera and asoorted, ready for boxing or shipping. This is the old method of tinning by hand that has been in vogue in Europe for the last hundred years. We believe that the same results can be aceomplished by the use of machinery, in which case the tinning will be greatly accelerated, and the cost of tin mach decreased. The business has assumed such importance that the late convention of iron and steel manufacturers held at Pittaburg went a petition to Congross suggeating a change in the law imposing duties on tin, stating that the tin plate basiness representa an annual consuupption of over 150,000 tons of pig iron, abont $1,000,000$ tons of coal, and about 50 rolling mills having two traina each, all required to supply the demand for that article, and that protective duties shonh be imposed to develop this industry which wonld give employment to at least 40,000 persons.

Thassunsatos of Powen ny Electhectry. Prots. Houston and Thomeon have experimentally shown, at the Franklin Institute, that powerful electric currenta can be conducted by very fine wires. They oent the ourrent generated by one dynamo-electric machine through a wire. 004 inch in diameter to a aecond machine, which, working reversely, gave of coesviderable power.

