The state of the s pean kind of building to be especially applicable in, fire, hydraulic works, as it offers nowhere a continu cus leint to the mater; second, in fortifications; third, for railways in substruction and storp coverings, and in the cellar story and even in the rext story of large buildings and ralaces. In these mortar would he need, not as a means of connecting the stone, but only as pointing to the joints, so that the immediate contact of the stone should not be interrupted. In conclusion, the welfer recommends the adoption of this method of building according to determined and clearly defined principles and rules, as altegether practical, wherever the material for polygonal blocks is found—a method which is at least to us a new one, and not simply a more careful execution of the longused rock walls, or an ornamental imitation of an eld style, as in the Waihalla, of which practical method, in short, this Cyclopeau wall, near Kiel, is the first example that has been executed in Germany -The nutle.

land elling.

As a good deal of attention has lately been given As a good dest of attention has taken been given to non-ships it may be interesting to shipowners to know that the fron bark "Richard Cobien," now being overhauled in No. 1, Canning Graving Bock, was, on Wednesday last, borred through one of apparently the worst and most corroded plates in her, lir. F. W. Sim, the managing owner, being anzious to ascertain what the actual diminution in thickness would prove after eight y afa' service between this and the East. The result was that the plate operated upon turned out to be the same thickness that it was when the ship was launched in July 1844, namely, u. 16ths of an inch on the sixth tier from the keel-The only part of the vessel which, on examination, exhibited any corrosion, and that only alightly, was the bow, where the anchor and chain had chafed the paint or coating with which the vessel is covered as a preservative, and which appears to perform its office uffactually .- Liverpool Albion.

ANCHOVIES AND THEIR AUCLIERATIONS.

The Lancel gives the trault of the investigation of the Analytical Sanitary Commission into the composi-tion of "Anchovies," as vended in the metropolis. Having analyzed 28 samples, the following conclusion has been arrived at :- That seven of the samples consisted entirely of Dutch fish. That two of the samples consisted of a mixture of Dutch fish and anchovies. That the brine in 28 of the samples was charged with either hole Armenian or Venetian red, the quentity varying considerably in amount; but in most cases the bring was saturated with these earthy powders to such an extent that they might be obtained and by tea spoonfuls. The commissioners add-4It is not to be inferred that those samples in which no Dutch fish were detected consisted of the true anchovy, since we have assertained that two other kinds of his besides the Dutch are commonly imported and sold as * true auchovies,' and 'real Uprgonas,'- namely, French and Sicilian fish. A futther investigation established the fact, that not one-third of the 28 samples examined consisted of Gorgona anchovies.

Natural Uistorn.

INFUSORIA.

The Influence of a low temperature on Infusoria has been minutely described by Professor Ehrenberg; he agrees with Professor Spallanzani that cold is generally fatal to the above class of animated beings, especially to the Rotatoria. "It is more destructive to the living animals than to the eggs." Water, when recently thawed, is found to be inhabited by a few individuals which have escaped death, and enclose the germs of future generations. They invariably die when meased in ice from one hour and a quarter to two-hours; but the moment that congelation of the water takes place, each individual is surrounded

poses to be the result of its proper heat. If the ice is thewed quickly by a strong heat, it proves fatal to every Infusional it contains, therefore, to obtain them from ice, it must be dissolved by a slow bo-t. They are found in winter at 120 10 west surface of ice covering ponds, &c. HEAT will instantaneously kill it fastis animatentes; the effe as sail as the cuma, and the commandation of the comma perish. There are, however, several species capable of supporting a temperature from 45 to 50 degires. (Renumue)? Int I have on several occasions lound vegetable infusing living when the heat was grailnally brought up to the adegree. Lioux is invocable to them, but it is not consucced necessary to their development; they are found in deep mities, for example, the Schlengenberg, Fribourg, &c. If the light be too strong, it acts quite the reverse. Sometherefore thought a peculiar circumstance might in-fluence them in this attention; heat causes the development of currents of gases which draw with them these minute creatures, and this is the cause of their presence more frequently on the warm side, then on the side towards the light. The difference between day and night is not appreciated by them. " The electric spark acts differently, according to the power and species on which it is tried; generally the animals lound in the current are dead, it not by the first spark, at least by the second. The animals found in the galvanic pile, or of a magneto-electrical apparatus, are instantly killed; but to effect this, it is necessary that decomposition of the water takes place, and that the wires be approximated to within from one to three lines of each other. All animate which approach are as it were struck with lightness." Atmospheric Afa is necessary for the existence of animalcules; the Rotaluria cannot exist without it; it is therefore necessary that a small hole he cut in the curk of the buttle in which they are kept. Those, however, of the young Chlamidomonas will live five days under a leyer of oil; some will only live beleath the air-pump us tong as they can find the smallest patticle of sir; the larger animalcules soon perish when thus treated. Oxygen has little effect on infusona; but if a small proportion of mitrogen be added to the be ore-mentioned fluid and transferred to the vessel in which they are kept, they will not survive over twenty days,and by an experiment of the harned Professor Ehrenberg, in which he added a third part, to med Hydrogen. which has the property of bu ning with vital air . after this audition they survived only seventeen hours. What is more strange, is that all chemical substances which do not change the composition of the water, will exercise no influence upon those minute creatures Journal.

of Creation; not even the strongest or most deadly Lois his will desired their vitabily, if they are not more than mecha ically mixed with if the die p of sait water will destroy thou-ands of tresh water soimaling - the sait water the f containing a large number of them. Sterebrin destroys ibem in the same that it is a purel water, by promoting an expecoring air effect. A serie was awallowed by a spect a chile? Heliation made but which did not die until some time sier. Calonel, C crosive arbimate. and camptor did not cause steath until some hours aller being anatowed Wine and runs, like ougar electron nearly all the Influences which are found in Lis Lable Water.

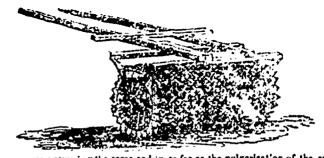
TORINTOUL.

It is a fact pretty generally known in this district that the grass which grows in the neighbourhood of Luch Aven proves fatal to the lives of nearly all the horses that partake of it, but it is not so generally known in what the properties of the grass wo refer to differ from those of other grasses elsewhere-in other words, what is the cause of its producing death. Were it necessary, many lustances could be given to show its pulsanous properties, For the present we shall content ourselves by referring to one which can be attested by a very respectible and influential person belonging to the neighbourhood. Souréjeans ago, the gentleman we refer to, being visited by a few acquaintances was anxious to show them the romantic scenery which surrounds Loch Avon. A fine day was selected, horses were provided, at an early hour in the morning. Off the whole of the party set for the desired spot which, in the course of time, they safely reached. Forgetting the singular and dangerous nature of the grass, the horses were allowed to partake freely of it. No bad effects were visible till the party commenced their homeward journey, when two of the horses began to stanger very much and in the course of a very short time, altogether lost the power of their legs. rest of the horses were similarly effected, but not to the same extent. After some delay, the appearance of the whole of the horses improved very much, and their riders managed to get them some distance to-wards home. Subsequently however, the two that were worst relapsed into their former state, and in r-very short time ceased to exist. The rest, though often mar death, after many struggles, were get home, and recovered. So notorious is now this property of the grass that no sportsman will, within a few miles of the place, keep a register - Banffshire

Aariculture

CROSKILL'S PATENT CLOD CRUSHER.

In our last number we gave a brief sketch of the Norwegian Harrow, accompanied by a drawing of the implement, and as allusion was male to Crosskill's Clod Crusher, we subjust a skewn of that implement-



Although in some manner answering the same end in so far as the pulverization of the surface of the soil is concerned it is evident that in order to open out a hard clay soil the Norwegian Harrow will be of far more importance, although the Clod Crusher is undoubtedly the most effective implement that moderate mechanical skill has contrived in order to furnish the farmer with the means of reducing to a fine condition the driest and most stubborn soils. It is composed of a number of east-iron rings, two first six inches in diameter with indented or serrated surface, placed around an axle, and acting independently of each other so as to produce a separate action, and effect a self-cleaning movement. The ordinary width of the roller is six feet and a half, and each of the separate parts has a series of inner teeth at right angles to the axle, pointing directly perpendicular into the clods, and most effectually pulverizing the roughest hand into a fine surface mould. This implement has been aptly termed a roller and harrow combined. It has been used with much advantage on young wheat in Spring, when the soil requires consolidation, and is said to prevent by a small envity, which Professor Ehrenburg sup- the Whe-Worm in many situations. The price of its manfacture varies from 415 to 425.