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All kinds of goods cleaned, dyed and finished. I put up and have for sale the "Jem Package Dye," warranted to be the best in the market. Try them. Agents wanted. R. MONTGOMERY, Fraction Dyer.

SCIENCE AND PROGRESS.

USEFUL KNOWLEDGE OF A SCIENTIFIC NATURE FOR ALL READERS.

Division of Labor in the Economy of Animal Life—A Remarkable Instance Occurring Among Animals of a Very Low Grade of Organization.

Probably the most remarkable instance of division of labor among animals is that of the hydroid zoophytes, animals of a very low grade of organization. This case is not generally known, hence we here reproduce from Popular Science News an illustrated description.



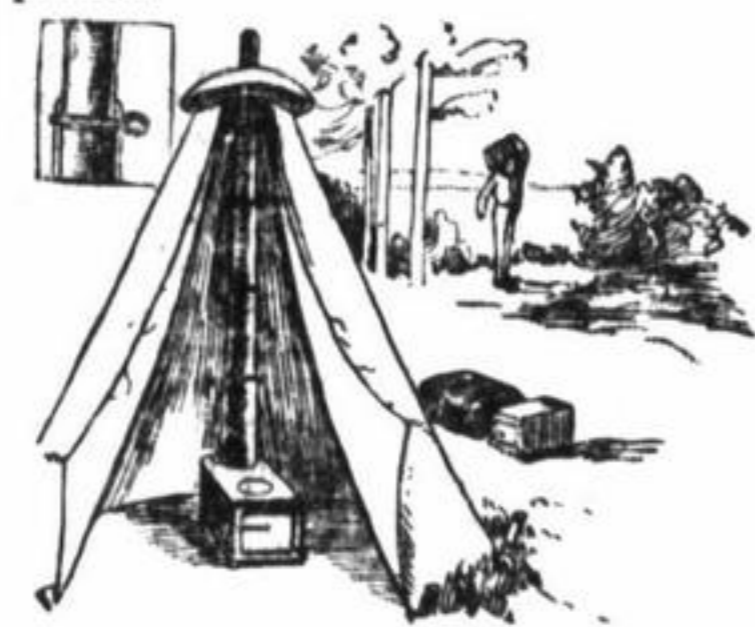
STRUCTURE OF THE BODY OF A HYDROID.

The hydroids are very small plant like animals living in sea water attached to rocks, shells, sea weeds, etc. There are very important species, all of which to a greater or less extent illustrate the principle under consideration. We may select, for description, the species always found attached to the shell of the hermit crab, viz: Hydractinia. The animal is of compound form, consisting of a colony of different members, or zooids, organically united by a common base. The accompanying figure shows the structure of the body: it is seen that there are three distinct kinds of zooids, (a, b, c). Each of these has its special function to perform in the life of the animal. To one class (a), called nutritive zooids, is allotted the task of obtaining and digesting food. The mouth is at the free end, and is surrounded by a circle of tentacles which are organs for capturing prey. The food matter having been swallowed, it then undergoes digestion within the body of the nutritive zooid, whence it is distributed to the other members of the colony.

A second set of zooids (b) is concerned with the reproduction of the species, these members, therefore, being termed reproductive zooids. At first they do not differ in structure, and probably not in function, from the nutritive zooids, but after a time a circle of buds grows out beneath the tentacles which eventually develop the reproductive elements, giving to the members of the community a distinctive sexual character. The third class of zooids (c) have as their special duty the defense of the entire colony and are called protective zooids. Their bodies are capable of extension and flexion, so as to enable them to keep guard over the community. The free end of the body is abundantly provided with minute stinging organs called nematocysts or thread cells, being identified in structure and manner of action to those of jelly fishes.

A Novel Tent Support.

A Dakota genius has come to the fore with a patented stovepipe and tent support, which, to say the least, is novel. The stovepipe is made telescopic, the smaller sections at the top being made to slide inside of the sections under it. Each section at its extremities is provided with holes into which are inserted screw threaded pins for locking the pipe into position.



ACEUL'S STOVE PIPE AND TENT SUPPORT.

The stove may be of any desired type. The top section of the pipe has a sleeve provided with a flange from which is suspended the heavy ring which carries the tent proper. This sleeve is removable, and is likewise locked in position by means of a pin. A bell like shield caps the whole to prevent rain or snow from entering the opening at the top of the tent. The sections of the pipe are made flanging at the bottom and are bent in at the top so as to make the joints tight fitting. By this device the smoke is carried away, the tent is thoroughly ventilated, while the ordinary tent pole is done away with. When traveling, the pipe may be folded and packed away into very small space, occupying no more room than the largest pipe section, says Scientific American, from which the above was taken.

Testing Boilers.

It is customary with some mechanics to test new boilers, or old ones which have undergone repairs, by simply subjecting them to a high steam pressure. Why any intelligent person should do this passes our comprehension. If a boiler is known to be strong enough to sustain a certain pressure, there is no earthly reason to subject it to that pressure. If it is not absolutely certain that it will sustain any given pressure, then it is the height of folly, and it incurs a risk no man can afford to take, to apply that pressure in such a manner that, in the event of the boiler not proving strong enough to sustain it, an explosion would inevitably occur.

Frost in Water Pipes.

Pipes do not always burst after a freeze. Lead is very ductile, and will often yield or stretch enough to allow for the expansion of the ice without making an open fracture, but the pipe is gradually weakened by each successive freeze, and will become as thin as paper before giving way. Pipes are most likely to freeze at the top of a curve or bend, where some slight obstruction tends to collect the ice, which, being lighter than the water, rises in flakes, which soon becomes united in a compact mass.

Notes and Comments.

Iron may be distinguished from steel by breaking and comparing the crystallized surface. Steel will show a homogeneous granular surface; iron will show a streaky or fibrous surface.

Colorado is becoming an oil producing state. Wells in the valley of the Arkansas, near Pueblo, are yielding about 1,000 barrels per day.

The most effective show tablets for a chemist's window are opal glass with black lettering. Being translucent, they look as well by daylight as by night.

Interesting experiments have been recently made in Russia and published in France on the culture of vegetable parasites for the destruction of injurious insects.

MISCELLANY.

How Mantell Was Caught a Lesson.

Robert Mantell has this to say about stage waits: "To avoid stage waits is an all important factor, and many amusing scenes have been caused by them. I caused a stage wait once, and it made such a lasting impression on me that I am sure it will never occur again. It was years ago, while I was in Belfast, Ireland, where we were playing 'Othello.' Poor Frank Clements was the Othello and I the unfortunate Iago. Having made my exit I stood in one of the wings waiting for my closing scene, forgetting all about another that came before it, and wholly oblivious to my surroundings. Suddenly I heard Clements in a subdued voice calling to me: 'Come on, Bob, come on.' I never moved, while from the opposite side Desdemona and Emilia began waving their hands to me to go on. To cap the climax I made similar motions to them, believing they had forgotten their scene, which followed mine. As they had never played the parts before they obeyed my gestures and stepped upon the stage, only to be glared at by Othello, who quickly ordered them off. Again Clements called me to come on, but it was useless. Finally the stage manager made his way to where I was standing, and soon learned what was up. That night I cried myself to sleep and since then I have never kept the stage waiting."—The Stage.

Swaying a Big Bridge.

Along towards evening nearly every day several gangs of mules are driven across the bridge. There is nothing remarkable about that, but there is about the effect. Those beasts will start trotting, and nothing can stop them; and the worst of it is that, owing to the peculiar sense of rhythm about a mule's system, in a minute after they start the steps of each one will be in keeping with those of his neighbor; and, further, there is a painful regularity about these steps that marks time as faithfully as does a bass in a brass band. Pretty soon that huge structure begins vibrating in unison with their tread, and before long it is swaying back and forth with a motion which will, in some cases, beget a sort of seasickness, or, maybe more properly, bridge sickness. Until one gets used to it, the impression is that the great structure will fall. I was at first tempted to jump into the river; but I didn't jump, and the bridge didn't fall. It would be fatal to an ordinary bridge, to which the trot of a horse or steady tramp of soldiers is fatal, to say nothing of the more rhythmic pace of the mule.—St. Louis Globe-Democrat.

Something Saved.

Solon was the name of a certain old colored man, who was so named, perhaps, for his want of wisdom. His observations were scarcely as weighted with knowledge as the words of his namesake, the wise man of Greece. One day Solon heard one of the men on the plantation say: "There's a man down on the Rogers plantation who has just had his thigh amputated."
"What's dat—amfercated?" asked Solon.
"Why, cut off."
"Am dat so? Dat's a pity, sho! But dey's one great consolation fer de po' man; ef he on'y had de thigh amfercated he done got de knoe and de foot lef fer to walk wid!"—Youth's Companion.

The Pig and the Cow.

A Pig having fallen into a Pit set up a loud Squealing for Help, and the Cow came Running to see what was the Matter. In her Anxiety to be of Service she saved the bank in on the Pig and smothered him.
"Alas!" he gasped with his Dying breath, "had I called in the Bear, who is my Enemy, I should have been no worse off!"
Moral: It's about an Even thing whether you call the Doctor or the Lawyer.—Detroit Free Press.

The Far Reaching

Perfume of a good name heralds the claim that Putnam's Painless Corn Extractor is a sure, certain, and painless remedy for corns. Fifty imitations follow it to be the best. Take no acid substitutes at druggists.

Ahead of the Times—Parnell.

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