

## WOODEN WATER PIPE.

Respecting the durability of wooden water pipe, a member of the Engineers' Club, of Philadelphia, said: "The section of spruce was originally about 14 inches in diameter at the large end and somewhat smaller at the other, having a rot iron band about 1 1/2 in. wide, 3 in. thick at one end and tapering to a thin edge at the other, so that it could be driven on or into the end of the log near the outer circumference. A piece of iron pipe 4 in. internal diameter and about 12 inches long, tapered to a thin edge at each end, served to connect the ends of the two adjoining logs, which were driven over it end to end, and prevented from sagging by the iron bands around the ends of the logs. In some cases no interior iron coupling pipe was used; one log was tapered at one end and driven into the next one, which was prevented from splitting by the exterior iron band. The 4 in. pipes, so far found, were of yellow pine, spruce, and oak, of about 12 feet lengths, and from 12 to 24 feet in diameter, and supposed to have been laid between 1795 and 1805; the depth at which they were found varied from 2 to 8 feet below the surface of the street. The outer bark and heartwood of the spruce logs were generally sound, while the inner bark and sapwood were decayed, except where the soil was dry, gravelly or porous, when the greater part of the wood was decayed and the iron badly corroded. A specimen of red oak from a log adjoining the spruce one was decayed on the under side, but other portions looked nearly as fresh as if recently laid.

## THE BAMBOO.

There is a class of plants which gives a peculiar character to most Indian forests, and this is the bamboo. They are tall arborescent grasses, generally growing in dense clumps, consisting of numerous slender stems, often 60 feet high and more. The stems are hollow, light, and very strong, and they furnish most valuable material for building; but they are also used to make baskets and mats, and the walls, floors, and even the roofs of houses are often made of stout bamboo matting. The demand for bamboos is very large, many millions being annually floated down from the Burmah forests, and they are exported from most of the larger forest districts in India. Only in some remote districts are the bamboos as yet without value. A project was started a few years ago to use the fresh shoots of the bamboo for the manufacture of paper, and extensive concessions were made by Government to the promoters of this project. Excellent paper from bamboo is made in China, and there seems no doubt that fresh bamboo shoots yield one of the most valuable of paper stuffs. But in most districts the stems fetch much more when mature than the papermaker could afford to pay for the fresh shoots, and in those remote districts where bamboos have as yet no value the unhealthiness of the forests, the scarcity of labor, and other difficulties are in the way of this undertaking.

## New Mills at Port Arthur.

The Port Arthur Boom Slide and Lumbering Company, in which Messrs. Connec and Thompson are the principal stockholders, propose to assist in keeping up the boom in Port Arthur by erecting a large saw mill on their water lot adjoining Geo. A. Priest & Co.'s planing mill. The mill will have a cutting capacity of 50,000 feet per day, and will be fitted up with the best and most approved machinery. The company have already contracted for the delivery here of 5,000,000 feet of logs and in fact they would have had some on the spot already had it not been for the obstructions previously in Pine river, where the logs are being obtained. It is believed a number of new mills and factories will go up next summer along the water front.—Sentinel.

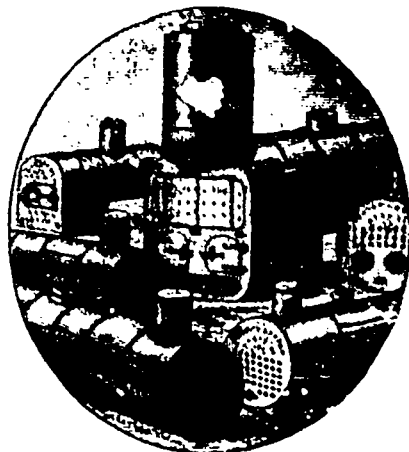
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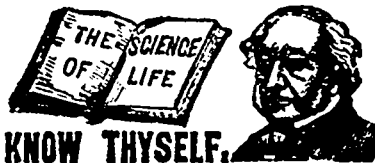
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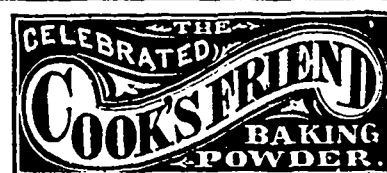
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