feet from the Delaware, and, though thus situated, it is capable of throwing the water against the tide. The Marsh Company seem to be fully satisfied with its operations, and are now engaged in extending the area of land to be improved.

**New Forms of Stub-End.**—We present two forms of stub-ends, one with a bolted strap, one solid, means of adjustment the same in both. A shows the block; B, the ordinary half-box; C, the other half, with angular back and wide flanges, to which is fitted a wedge, filling the whole space, except it is short, to allow of transverse movement, which is effected by the tap bolts E and F, the ends of which just don't touch near the centre of the wedge. It is evident that by unscrewing E and screwing F the wedge will be drawn against the box, C, and the latter made to approach the pin.

The strap C is secured to the block A by two well-fitted bolts, H H. The boxes in these stubs have square and solid backing. The whole presents a neat appearance, and will work in closer places than the gib and key stub.

**Endless Wire-Rope Tramways.**—A contemporary contains a description of the introduction of endless wire-rope tramways in our western gold and silver mining region, from which it would appear that this mode of transportation is admirably adapted to the wants of that mining region.†

It would seem that many of the valuable mines of the far west

† The Engineering and Mining Journal, Vol. xvi, 2.
Editorial.

are located upon the tops or sides of steep and rugged mountains. The difficulties in the way of removing the ores from the mines to the reducing works by the ordinary methods of transportation are, from the mountainous nature of the country, and the deep snows of winter, so great as to cause suspension of work in many cases for half the year, while under favorable circumstances it is very costly.

The importance, therefore, of a cheap and regular mode of transportation, under such circumstances, can hardly be over-estimated, and the necessities of the case have already called forth many inventions for accomplishing the object. But of all of them, according to our authority, the endless wire-rope tramway is destined to take the front rank. Several of them have been for some time in successful operation in Colorado, and their general introduction in other mining districts seems to be assured.

The motive power is applied at one end of the road to a "clip pulley," placed horizontally, which is a pulley furnished upon its circumference with numerous sets of movable jaws or clips, in the groove or depression of which the rope is grasped with a force dependent upon the pressure the rope exerts, and in this way prevents slipping.

At intervals of about 250 feet are placed posts, with horizontal braced beams, each of which is furnished with a bearing pulley, grooved to a depth equal to one-half the diameter of the rope. Immediately over each of these is placed another pulley with a groove equal to one-fourth the rope's diameter. The outer circumferences of the pulleys are not absolutely in contact, and space enough is left for the carriers sustaining the box of ore to pass.

Utilization of Tin Scrap.—A method of utilizing tin scrap, said to be in successful operation at several German tin plate works, is that of Mr. Adolph Ott, of New York. The scraps are placed in large perforated copper vessels, and rotated from 30 to 50 minutes in a tank containing warm hydrochloric acid, when the tin, lead, and about 5 per cent. of iron will be dissolved. The copper drum is then lifted from the acid into a vessel of water, into one of alkali, and again into water, when the scrap is free from tin and may be sent to the puddling furnace.

From the solution obtained the lead may be separated by the addition of sulphuric acid, and the tin may be obtained in the metallic state by immersing in the liquid, plates of zinc. Thus obtained, it requires only washing in water to be ready for melting and casting into blocks.
PIPE Its tail is round and hollow Seems to get chewed a bit But youll rarely see this thing Unless the other end is lit.


NAME Passed from father to son And shared between brothers Its importance is unquestioned Though it is used more by others.

Original Letters: TRSE. [45] Silver Royals [18] Gold Sovereigns [4] Dragon Stone [3] Clerical Oilcloth Waters, known in the industry as Kombat Kate, is showing me how actors fight each other without getting hurt, and that includes sword-fighting. (She inspires fierce devotion: when I tweet that Iâ€™m meeting Waters, one actress friend responds: â€œSheâ€™s amazing. She taught me how to be a secret service agent in two days.â€) And it was bigger than a beach ball! x41xxx x I was really taken aback. That was quite a long time ago though. Since then, Iâ€™ve got more qualifications and worked for quite a few different firms, some more environmentally aware than others. I feel much prouder of the recycling symbol now than I used to, probably because itâ€™s so widely seen. The sponge is full of holes and still holds water. Explanation: When the sponge is soaked in the water there is a scientific explanation to it. The increased â€œsurface tensionâ€ is created by the â€œstructure of the spongeâ€ with small holes in it that draw in the moisture and it sticks to the surface of the sponge. It is then absorbed by the material. If there were a larger number of holes in the sponge then there would be more surface area in the sponge and it can, therefore, store more amount of water inside. Learn more about Sponge.

Why is German suitor referred to as sponge by Portia in play merchant of venice? brainly.in/question/44498. Why is sponge labelled as a soft material. brainly.in/question/5042962. New questions in Psychology.