The upper river, or that portion of it above Celilo, is divided into stretches of smooth water, where the current flows with moderate velocity, and stretches of rapids with a current of great velocity. Small steamboats, of fine model and great comparative power, now navigate this portion of the river at all sensons, when not prevented by ice. These boats have engines of sufficient capacity to drive them through the water at the rate of sixteen miles an hour, and do not hesitate at the worst rapids. They require pilots of great akill and daring, and carry large crews. Such boats can not furnish transportation at minimum rates. The boat of the fature that is destined to liberate the producers of the interior from the bondage of exorbitant freights, must have a carrying capacity at lenst double that of the larg. est member of the present fleet, while drawing no more water and having but very little more power. Such boats will make their way very slowly up stream, and can not pass the rapids by the use of their paddle wheela alone. To enable them to reach the grain-producing regions I would firmly anchor, above the head of each rapid, a steel cable of sufficient length to reach the foot of the rapid, where the end would be supported by a buoy. The cable occupying a position in the center of the channel, a steamer appronching from below would touch the buoy, and being supplied with a steam windlass, suitable for the purpose, would pick up the cable and warp over the swift water. Such bonta will carry produce at very much lower rates than would be possible under the present system.

In proposing a solution of the problem of cheap transportation to the seaboard of the products of the interior, I have considered time as an important factorjust how important it is mny be judged from the nasertion made by the engineer in charge of the Cascade locks, that each year's delay in opening the river to free navigation involves a loss to the people on its banks almost equal to the approximate cost of the works. I believe the scheme herein proposed can be realized at less expense, and in one quarter the time demanded for the other schemes which have been proposed. This matter of time is of such consequence that it would pay, from a business standpoint, to build the inclines mentioned by Major Jones, for the Dalles, as temporary devices, for use pending the completion of more claborate works Eugese Semple.

Fons ataining brieks red, melt oue ounce of glue in one gallon of water; add a piece of alum the size of an egg, then one-half pound of Venetian red and one pound of Spaninh brown. Try the color on the bricks before using, and change light or dark with the red or brown, using a yellow mineral for buff. For coloring black, heat asphaltum to a fluid state, and moderately heat the surface of the bricks and dip them. Or make a hot mixture of linseed oil and asphalt; heat the bricks and dip them. Tar and asphalt are also used for the name purpose. It is important that the bricks be sufficiently hot, and be held in the mixture to absorb the color to the depth of one-sixteenth of an inch.

## FLATHEAD LAKE AND VALLEY.

The fine country around Flathead lake, in Missoula county, Montana, is rapidly filling up with settlers, and at present many fine ranches with comfortable homes are loented, where tan years ago thare was searee a babitation. This applies to the section that lies outside of the Flathead Indian reservation, which encloses half the lake and a large tract of country to the east, west and south. North of the lake the fine, largo valley, watered by the Flathend river and tributaries, offers great inducements to the farmer and stock grower, and of late years people have flocked to this section to avail themselves of its advantages. It is now estimated that there are over two hundred people living in the valley, and as the tide of immigration is constantly flowing it will not be long until it is thoroughly populated.

Thin valley is one of the most attractive spots in Montana. Boanded on the south by the beantiful sheet of water whence it takea ita name, an immense basin of rolling prairie atretches northwand for fifty miles, covered for the most part with luxurious grans and dotted in places along the water coursea and at the base of the mountains with heavy belts of timber. On the east and west sides ranges of mountains stretch along ite entire length, those on the east being remarkable for their rugged and lofty grandeur. To the north another lofty chain of mountains looms up to the eye of the observer, and as the casual visitor gazen at their now-tipped summits he is astonished by the information that he is looking at the lofty peakn which guard the famed Kicking Horse pass, through which the Canadian Pacifie railroad wends its tortuous way toward the Pacifie ocean. Yet such is the case. The boundary line, the Rubicon of defaulting bank cashiers is close at hand, and Her Majenty's dominions are only a matter of seventy miles to the north. Thin vallay is neceesible either by a no. called wngon rond that atretehen from the foot of Flat. liead lake northward on the west aide of that body of water, or by ateambont from the same point nerons the lake and up the Flathead river. Nearly all the nettlera have their own teams and wagons, and when they go to the railroad or Minsoula they usually travel overland by their own conveyance. The road, however, is a miserable affair and very hard to travel, and lately the settlers have agitated the quention of building a good road on the cast side of the lake. This question took definite shape in a meeting leld at Egan's ferry, when suflleiont funds and labor were unbseribed to nearly complete the road. This route is ahorter and better in every way than the old one, and the citizens expect, with the help of the connty in building the neceanary bridgen, to soon make it yield them an ensy and prneticable wagon roal.

The country in full of lakee. I climbed a mountain the other day, and in the magnificent landscape unfolded to view from its lofty summit. I counted no lesn than thirteen. Some of them are mere ponde, but the majority are deserving of the more general term of lakenCorreapondent of Helena Herald.

