

HASZARD'S GAZETTE, MAY 21.

ATMOSPHERIC POST.
(Correspondence of the New York Tribune.)

LATEST INTELLIGENCE.

ENGLAND.

In the House of Lords, the Earl of Malmesbury took occasion to ask in what state the negotiations were with the United States on the subject of the Colonial Fisheries; also, whether, as the fishing season is about to commence, it is the intention of the present British Government to protect the inshore fisheries on the same footing as had been done by the late Government.

To this the Earl of Clarendon replied, that the question must be regarded as now under negotiation; he would not disclose particulars which might be prejudicial to the public service, but the House might be certain that Mr. Chapman would have no opportunity of using the name of the U. S. Government, and bring it to a conclusion alike honorable and satisfactory.

As to the protection of the fisheries, he was able to state that previously the same course would be pursued this season as last, and that Admiral Seymour would again command on the North American Station.

Earl Derby hoped, that if the pending negotiations should give to the United States the right of fishery on the coast of Nova Scotia, the treaty would accredit to Nova Scotia permission to import her coal into the United States.

Let me explain a little for the benefit of your readers who are not engineers. Suppose that a cylindrical pump 36 inches in diameter, with a 48 inch stroke, be connected with a pipe 12 inches in diameter and 36 feet long. The capacities of the pipe and the cylinder will be equal. If the piston then be raised from the bottom of the cylinder to the top, the air in the pipe will have to expand to double its space to fill both the pipe and the cylinder, and while the pressure without is at a whole atmosphere, or 15 lbs. to the square inch, the reaction within is only half an atmosphere, or 7½ lbs.

As the pipe is nearly level, the resistance from friction is nearly all that has to be overcome by the propulsion, and consequently a mail of 20,000 half-ounce letters would be propelled by such a force acting constantly, with enormous velocity. It would, in fact, be shot forward a hundred miles in a very few minutes, and then, the aerial equilibrium being restored, a resistance would commence, which would gradually destroy its momentum. If, instead of one pump, many should be employed at once in exhausting the supposed 300 miles of pipe, it is plain that the work might be done in a single hour or less. One hundred horse power of steam, acting at different points, would undoubtedly be able in an hour to produce a propelling force approaching much nearer to a whole atmosphere, leaving, indeed, only air enough in the pipe to answer the important purpose of a reacting spring or cushion at the remote end, so as to prevent the mail from being shattered or reduced to a homogeneous pulp by a sudden arrival.

So far as the mail itself is concerned, it will probably cost less tractive force to drag it bodily through a pipe of pretty smooth bore, than to drag it with its proportion of locomotive apparatus over a railroad. The amount of horse-power which would, in a given time, drag it hence to New-York, would in the same time exhaust a pipe of sufficient bore to enable atmospheric pressure to put it through in ten or fifteen minutes. Multiplying the horse-power applied to the exhaustion will reduce the time consumed in the same proportion. And in this way we may have hourly mails, or half-hourly, with no greater expense for carrying them at present. As to the wear and tear, that is another matter. The proprietors of the Post consent to this arrangement, hoping to be supplied with another engine of the same kind in the course of a few weeks.

The steamer will be ready for sea by the 1st of July, when her wrought iron cylinder-bottoms shall have been put in, and proceed directly to San Francisco.

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Advice from Sacramento state that nearly all the garrisons and ranches on the river below the city were more or less injured by the overflow, and the crops on many of them ruined.

A report from Humboldt Bay states, that 16 of the 18 men who were exploring the road from Paragon bay to Rogue river valley, had been murdered by the Indians.

News from the mining regions continue to be satisfactory.

A violent three days' storm had occurred at Calaveras and Sonora, unroofing houses and doing other damage.

Nearly the entire business part of Gorgona, was destroyed by fire on the 26th April, including three American hotels, with their contents.

A fire occurred at Valparaiso on the 24th of March, destroying property to the amount of \$400,000.

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