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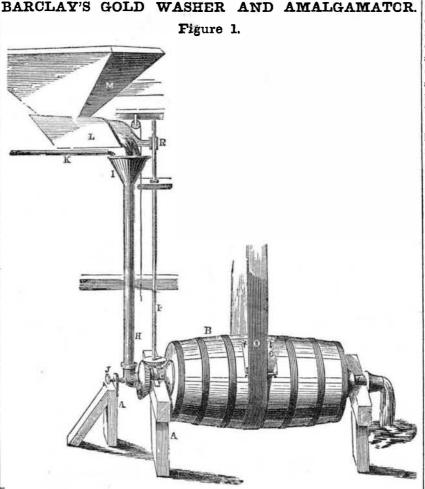
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RAIL-ROAD NEWS.

Railways and Electric Telegraphs in India India, which for thousands of years has remained stationary, in the progress of the world, seems to be, in some degree, waking from the sleep of ages. A railway is being built from Calcutta, running to the large towns and cities of the northwest; and it is expected that, within a few years, it will be extended far up even to Lahore, a distance of 1,000 or 1,200 miles. In the region of Bombay, also, within a few months, a portion of a rail. way has been so far completed that a locomotive has been put on and set at work. The electric telegraph, which, with steam, is revolutionizing the world, is also about to be extensively adopted. Lines are projected from Calcutta to Madras, Bombay, Agra, Lahore, &c. Dr. O'Shaughnessy, who has successfully established a line of telegraph from Calcutta to Kedgeree, has been deputed by Lord Dalhousie, Governor General of India to visit the Court of Directors of the East India Company, in London, in order to report his success, and to secure the making and carrying out a plan for a line throughout all India, as above mentioned. He will visit the United States to see the operation of the magnetic telegraph. It is expected that he will return within a year.

Canada Bailroads.

The Canadian Government is about to commence a singular project (as we view it), it being nothing less than a railroad from Quebec to Hudson's Bay, a distance of 600 miles. What in all the world is to be the traffic, we cannot divine. The Hudson Bay lies away up north, far beyond the bounds of habitation and civilization, and whatour Canadian neighbors can find there for the support and maintenance of such a long line, is more than we can conjecture. It is so cold up at Hudson Bay, the winters are so long, and the snows so deep, that the railroad must cease operations during a great part of the year. Is it expected that the timber regions of the north are to supply traffic enough for this road; or is Hudson Bay so prolific of fowl, fish, and peltries that a large commerce in these will be established and maintained. It is a prevalent opinion, on this side of the Canadian line, that excepting a strip of about 60 or 70 miles wide along the frontier, all north of that, in Cana

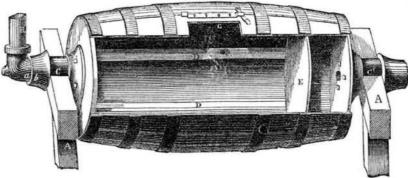


The annexed engravings are views of im- | chinery. B is the revolving cylinder, the inder Barclay, of Newark, N. J., and for which

a patent was granted on the 22nd of last June. Figure 1 is a side elevation, and fig. 2 is a vertical longitudinal section. The same letters refer to like parts. The nature of the invention consists in the employment of a hollow cylinder, with brackets placed longitudinally around its inner periphery, said brackets extending from the feed end of the cylinder to within one-fourth of its length from it to shake down the golden matters in pipe, the discharge end, and connected with an inphery of which, and the inner periphery of volved by bevel gearing below. The cylinwhich the water and earthy matter pass to known ways. The brackets, D D, are secufor supporting the cylinder and working ma- head; the object of this is to form an annular

provements on machinery for washing and | terior of which is shown in fig. 2, G being amalgamating gold dust, invented by Alexan- the door, and D D the brackets. The journals, C C' of the cylinder, B, are hollow, one is the discharge and the other is the entrance pipe. H is the feed pipe connected to the hollow journal of the cylinder by a hollow elbow, a b, which is tightened by a screw, J. I is the funnel : K is the water nine . L is the leeder, and M, is the hopper, in which the golden earthy matters are placed. The feeder. L, is hung upon swinging straps, to allow H. This feeder receives its shaking motion ner head or partition, between the outer peri- by cams, R, on a vertical shaft, P, which is rethe cylinder, an annular space is left through der is revolved by a belt, O, or by any of the the discharge pipe, while a fresh supply is be- |red to the inner periphery of the cylinder, and ing poured into the cylinder through a feed to the inner head or partition, E, 6g. 2. This pipe having a funnel at its top. A is the frame partition is of less diameter than the cylinder

Figure 2.



discharge pipe. To amalgamate the fine gold which is mingled with ground quartz, if mercury be placed in the cylinder, and the pulverized ore fed in by the feed pipe, water being constantly admitted, the brackets, D D, serve as distributors and agitators, to throw the quicksilver so minutely and forcibly among all the particles of the ore, as to cause the gold to unite very quickly with the mercury, while the lighter matters pass out with the water. The claim is for constructing the hollowcylinder, B, with the brackets and partition, E, for the purpose of washing, separating and amalgamating gold as described.

More information may be obtained by letter addressed to the patentee.

The Oil of Cloves.

The oil of cloves is extracted from the dried flower-buds of the caryophyllus aromaticus. It is colorless, or yellowish, has a strong smell of the cloves and a burning taste. Its specific gravity is 1 061. It is one of the least volatile oils, and the most difficult to distil. At the end of a certain time it deposits a crystalline concrete oil. A similar stearessence is obtained by boiling the bruised cloves in alcohol, and letting the solution cool. The crystals thus formed are brilliant, white, grouped in globules, without taste and smell. Oil ot cloves has remarkable chemical properties. It dissolves in ether, alcohol, and acetic acid. It does not solidify at a temperature of 4° under 0°F, even when exposed to that cold for several hours. It absorbs chlorine gas, becomes green, then brown, and turns resinous. Nitric acid makes it red, and if heated upon it, converts it into oxalic acid. If mixed by slow degrees with one third of its weight of sulphuric acid, an acid liquor is formed, at whose bottom a resin of a fine purple color is formed. After being washed, this resin becomes hard and brittle. Alcohol dissolves it and takes a red color; and water precipitates it of a blood-red hue. It dissolves also in ether. When we agitate a mixture of strong caustic soda lye and oil of cloves in equal parts, the mass thickens very soon, and pour water upon it and distil, there passes along with the water, a small quantity of an oil which differs from oil of cloves both in taste and in chemical properties. During the cooling, the liquor left in the retort lets fall a quantity of crystalline needles, which being separated by expression from the alkaline liquid, are almost inodorous, but possess an alkaline taste, joined to the burning taste of oil. These crystals require for their solution from 10 to 12 parts of cold water. Potash lye produces similar effects. Ammoniacal gas transmitted through the oil is absorbed, and makes it thick. The concrete combination thus formed remains solid as long as the phial containing it is corked, but when opened the compound becomes liquid; and these phenomena may be produced as many times as we please. Such combinations are decomposed by acids, and the oil set at liberty has the same taste and smell as at first, but it has a deep red color. The alkalies enable us to detect the presence of other oils, as that ot turpentine or sassairas, in that of cloves, because they fix the latter, while the former may be volatilized with water by distilling the mixture. The oil ot cloves found in commerce is not pure, but contains a mixture of the tincture of pinks or clove-gilly flowers. whose acrid resin is thereby introduced. It is sometimes sophisticated with other oils.

da, will never be peopled, owing to the severity of the winter seasons there.

It is proposed to build an air-line railroad fron Norfolk, Va., along the eastern shore of Maryland, through the States of Delaware and New Jersey, to the town of Freehold, there to connect with the Freehold and Keyport Railroad. Steamboats are to connect the various termini across the Chesapeake. Delaware, and Raritan Bays, and thus passengers will be conveyed to New York from Norfolk, from sunrise to sunset.

A beautiful car, with Paine's Ventilators attached, is being constructed at Hartford, for the Hudson River Railroad.

space for the passage of the earthy matter and | central current which might pass from the central feed to the discharge pipe; all the parwater to the discharge pipe, C'.

The objects effected by constructing the cy- ticles, as the cylinder revolves, are compelled linder with brackets along the inner periphe- to pass to the surface of the inner periphery ry, and with an inner head, are these: the of the cylinder, when the gold, by its gravity brackets serve to agitate the mass thoroughly and the centrifugal action of the force applied,

and separate the gold from the earthy matters, is retained; the lighter earthy matters pass and thereby prepare it for washing and amal- off with the water through the annular space in giving immediate relief, and heal without gamation. The inner head serves to stop any between E and the cylinder, and out at the leaving a scar.

Salve for Burns.

Take two parts of olive oil to one of laudanum, to be applied as soon as possible It has long been used, and never known to fail