

Northern Railroad.

The work on the section of the road near Albany is expected to be completed by the 1st of next month. The buildings on the line of this road within the bounds of the city are being torn down, and the ground prepared for the rails. It is confidently expected that the rails will be laid to Cohoes, and the road ready for use by the 1st of December next.

## A Long Tunnel.

One of the longest tunnels in the world is now approaching completion. It is situated in Hungary and leads from the shore of the river Gran, not far from Zarnowitz to the mines in the Schemnitzer Hill. It is about ten English miles long, and it is intended to answer the double purpose of a channel to drain off the water accumulating in the works, and of a railway to transport the ore from the mines to the river.

The air-line project between New York and height corresponding with the length of the al contact below the surface with the pulver-By this new process the previous washing is Boston is again agitated. It is now proposed lifter (15 inches) when it-the stamper- ized quartz. This prevents any of the oxide not required, as the composition itself acts upto make use of the newly constructed Charles River Railroad, which will be met at a point drops down, 45 times in a minute, on the of iron, which may be in the quartz, from on the greasy glutinous matter in the wool, called Scott's Hill, in the town of Bellingham, quartz in the trough, with a blow like that of forming a coating to prevent the contact of and renders it afterwards much more suitable called Scott's Hill, in the town of Bellingham, a hammer weighing 600 lbs.; M is the cast- quicksilver with the gold-the oxide is rub- for manufacturing purposes than wool that by a direct line of road passing through metal bottom or the quartz .trough; N\* is a bed off and passes out with the surface water. has been treated in the ordinary way. Woonsocket, R. I., thence across the State of wire screen through which the pounded quartz It is therefore superior to a mere surface Rhode Island, and thence through Middletown Buckle on your Preserver Right. amalgamator. Each ball weighs about 3,000 -reduced to about the size of small shotand the State of Connecticut to New York lbs., it can be cast solid, or for convenience, passes from the stamper trough to the recep-An inventor of a patent; life preserver test-City. tacle, O, into the several spouts, P P P, and cast hollow, and then filled with black sand ed its efficacy a few days since, in the pre-The Pittsburgh and Steubenville Railroad thence into the pulverizing and amalgamating at the mines. The ball motion is the best to sence of a large crowd at Cincinnati. With it is rapidly advancing to completion. This is basins. On the other side of the stampers is reduce the quartz to an impalpable powder, girdled to his body, he jumped into the Ohio, the great connecting link between the Pennan inclined iron plate to guide the ore under in which state it must be for proper washing, not far from Walnut street. Some of the sylvania Central Railroad, and St. Louis road. the stampers. The upright shafts or arms of or for amalgamation with the mercury. The gearing became displaced, and instead of the The completion of these railroads opens a dithe stampers are guided through openings in lighter matters pass off at the lower lip of inventor's head remaining at the top of the rect communication to the entire west. It is the guide boards, B B, to drop perpendicularly each inclined basin through a spout. The bawater, his position was reversed-the head on the quartz; LL are the hammers of the sins are therefore pulverizing, washing, and down and feet up. It was with difficulty the expected that the whole road trom Philadelphia in St. Louis, will be in successful operastampers; they are made of the best chilled amalgamating machines. These basins are assembled crowd saved the gentleman from tion by January 1851. iron, and are so formed as to do double duty leach made with conical funnels reaching drowning.

dau's machinery for grinding and reducing and capable of supplying the places of L L. gold quartz to an impalpable powder, and Phe pulverizing and amalgamating basins are amalgamating the said ground quartz with set in an inclined position. Four of these quicksilver. The same letters refer to like basins, Q Q Q Q, are shown set in one frame, receiving the pounded quartz-it is pounded parts. The machinery here represented exwith a small stream of water flowing inhibits a set of stampers placed on an elevafrom the spouts, P P. Each basin is a large tion above the pulverizing and amalgamating basins. The stampers are of the usual form, circular iron' vessel, like a potash kettle, and and are operated in the common manner as set inclined at an angle of about 45°. The basins are made to revolve, and this gives here exhibited. A strong frame is erected. A is a cross sill or bearing brace, one on each ball a rotary motion on its own axis contrary to the motion of the basin. There each side, having journal boxes for the lifter is one ball, R, for each basin. Each ball

machine, in cotemporary journals. A large machine is fitted up at the Novelty Works this city, where a number are being manufactured for California; and one for the New Jersey Zinc Co., to be employed for reducing the zinc ore.

Measures have been taken to secure patents in foreign countries for this machine. More information may be obtained by calling, or by letter addressed to Mr. Berdan, at the Astor House, New York.

## Composition for Treatment of Wool,

shaft, H, which receives motion from the This is a new composition for preparing keeps rolling in the lower inclined part, Z, of main shaft, D, which is driven by animal. wawool for manufacturing purposes, invented ter, or steam power, giving motion to the its basin, into which the pounded quartz is by Wm. S. Hubbell and Amos Barrett, of gathered, and there exposed to the rolling crank through the connecting rod, C. The cog wheel, F, gears into the one, G, on shaft, pulverizing weight and motion of the ball, Kingsville, Ashtabula Co., Ohio, who have taken measures to secure a patent therefor. In H, and rotates the lifter shaft. On this shart which rolls on the quartz while the basin is are a series of horns, or lifters, and by some continually presenting a new surface, to change the common way of treating wool for manucalled "wipers" I, for lifting the stampers. the position of the quartz, as it (the basin) facturing purposes, it is washed before it is fit There are slots in the vertical shafts or arms rotates on its axis. The quicksilver is placed for combing, and after having dried is treated of the stampers, the lifters take into said slots in the lower part of the basin, and the weight with some unctuous agent, such as oil of va-Air Line Railroad is they revolve, and lift each stamper to a of the ball and its motion, keeps it in continurious sorts; to render it fit for manufacture.