sea level, and by the old method of sink-ing shafts it would have required more time and labor to bore one of these than

BEGINNING OF THE WORK.

of the Italian engineers was therefore

turned to a device for using compressed air as the motive power. This matter pre-sented no very great difficulty in its gen-eral principles, but a great deal of experi-

menting was necessary before it could be put into successful practice.

THE MACHINERY USED.

A machine was finally invented and put into operation which could stand outside,

by one of the streams that came down from the mountain, and, with its aid, force the air through long tubes to the drilling apparatus. This latter is a machine which

works in a galley nine feet square, and

blast will bring down a considerable ma of rock. At first powder was used in the

blasting, but there were many obvious ob-

received from the outer world by ma-

SIZE OF THE BORE.

The tunnel is in the form of a segment of a cylinder, the bottom being level for the road bed of the proposed railway.—
The height of the arch is 21 feet 7 inches,

the width of the tuenel at the base 25 feet ge inches, and the width in the broadest part 26 feet 2; inches. As fast as the rock is blasted out it is removed, and a party of masons follow close behind the

busy machinery to complete the masonry. The work has gone on in this way day and night for more than a dozen years, and at

last the two gangs of workmen have met, so we are told by the telegraph, far beneath the summit of the Grand Vallon. For some time after the work was begun visitors were admitted at all times, but as

the work progressed stricter rules were adopted, and permission was given to in-spect the work only on two fixed days of the month. The visitor is taken in charge

by the director of the workmen, who gives him a long India rubber coat and a lighted lamp attached to half a yard of wire, and with these they set out upon their jour-

INTO THE BOWELS OF THE EARTH.

has been taken for the entire work.

THE DAILY JOURNAL

WILMINGTON, N. C.

WEDNESDAY, JANUARY 4, 1871.

From the Balaigh Sentinel. Trinity College.

At the semi-annual examination, which closed December 22, the following young gentlemen obtained first distinction, to which their names are attached

SENIOR CLASS. Latin-Messrs Allen, Brickell, Bryant, Bynum, Davis, Mauney, Paul, Pierce, Semmous and Tucker.

Modern Languages-Mesers. Brickell, Bryant, Bynum, Craven, Davis, Greene, Mauney, Paul, Pierce and Tuck

Mathematics - Mr. Hines. English Literature Mesare, Brickell, Bryant, Hines and Mauney. Metaphysics—Mesars, Brickell, Bryant, Bynum, Craven, Ellington, Mauney, Nor-

ris and Tucker. JUNIOR CLASS. Latin-Mesere, Barringer, Ledbotter,

Norman, Terry and Townsend. Greek-Messra. Barringer, Ledbetter, Terry, Townsend and Wellborn. Mathematics-Messra. Barringer, Nor man, Terry, Townsend, Turner, Wellborn

and Worthy.
Logic-Messrs, Barringer, Bledsoe, Ledbetter, Norman, Terry, Townsend, Turner and Worthy. Modern Languages-Messes. Ledbetter

Norman, Terry, Townsend, Turner, Woll-born and Worthy. Natural Science-Messrs. Norman, Ter ry and Townsend.

SOPMOMORE CLASS. Latin-Messrs. Everett, Grimes, Hodges,

Murphy, Pegram, Simpson, Watson, Wilson and Winningham. Greek-Messrs. Murphy, Pegram, Simpson and Winstead.

Mathematics-Mesers. Cooper, Hodges, Pegram, Simpson, Wilson and Winniugham. Natural Science—Mesars. Cooper, Eve-

rett, Grimes, Murphy, Pegram, Simpson Modern Languages-Messrs, Armstrong Everett, Grimes, Murphy, Pegram, Watson, Winningham and Winstead.

PRESHMAN CLASS. Latin-Mesers, Kennedy, Lowe

Greek-Messrs, Boykin and Veach, Mathematics-Messrs, Boykin, Faison, E. A. Jones, Kennedy, Ontlaw and Shaw. English Literature Messrs. Darbam, Flison and Lowe. Natural Science Messrs, Paison and

Kennedy. SPECIAL SCHOOLS.

Latin-Mr. Benson. English Literature-Messrs, P. B. Barringer, Betts, W. O. Craven, Maness, Rhodes, Sanders, J. C. Wellborn and C. Natural Science-Messrs, Daniel, J.

Johnson and J. F. Stanback. Mathematics—Messrs. Endy, J. C. Wellborn and C. H. Wyche.
Penmanship—Messrs. Barringer, Betts, Rhodes and Sanders.

SENIOR LAW COURSE. Messrs. Brickell, Bryant, Bynum, Ellington, Hines, Mauney and Tucker.

Winstead.

Messrs. J. A. Barringer, Simpson and Winstead.

DECLAMATION.

The following bave the highest grade in Declamation: Messrs. Bledece, Evereit, Murphy and Norman.

COMPOSITION.

The following the highest in Composition of the perforating machinery. Thus the three essentials of comfortable life—light, air and water, are received from the outer world by manager to the perforating machinery. Thus the three essentials of comfortable life—light, air and water, are The following bave the highest grade in Declamation: Messrs. Bledsoe, Everett, Murphy and Norman.

The following the highest in Composition: Mesers. Lane, Pegram and James

The following have not been absent from Prayers, Church or Recitation: Messrs. Armstrong, Daniel, J. M. Johnson, Kennedy, Ledbetter, Murphy, Ont-law, Rhodes, J. F. Stanback, Townsend, J. A. Turner, Winningham and Winstead.

Trinity College, Dec. 29, 1870.

COMPLETION OF THE GREAT MONT CENES TUNNEL.

The Result of Twelve Years of Labor The Alps Pierced from France to Italy-Seven Miles Through the Bewels of the Earth_The Engineering Triumph of

A cable dispatch from Susa announced that the Alps were pierced through on Monday, and that the workingmen from both ends of the Mont Cenis Tunnel joined in congratulations upon the completion of

RISTORY OF THE WORK.

After going some distance the patch of daylight furnished by the entrance is lost sight of, and the darkness seems positively tangible. Ahead through the blackmess gitmmer a number of lights, and the rumbling sounds of the wagons carrying of out the debris is heard. Then comes a dull, heavy rumble, echoing and re-echoing through the gallery, and sesming to shake the mountain from base to summit. It is the sound of an explosion. One follows another in rapid succession, and, after seven or eight, the wooden doors, which are closed just before the blast, are thrown open, and clouds of smoke come pouring through the tunnel in such density and wolume as to be positively painful. At the time of the completion of the tunnel the workmen from the Italian side had bored it miles into the mountain, and those from the French side about 3 miles, the whole The "eternal" barrier between France and Italy has at last been overcome, and at this moment the workmen who, for thirteen years, have been working toward doubtless met, and with such familiarity as their diverse languages will permit, con-gratulated each other on the completion of their more than herculean labor. THE PRELAMINABIES.

The Alps have been crossed even with great armies since the days of Hannibal, but the undertaking has been one of no little toll and some danger. In 1805 the first Napoleon constructed a road through the pass of Mont Cenis, which was at a moderate elevation of some 5,400 feet above the level of the adjacent country. This was thirty miles long and eighteen feet wide, and was built at a cost of 7,000, 600 france. It served for many years as the near the server of th feet wide, and was built at a cost of 7,000, 000 france. It served for many years as the only highway between France and Italy, but within the last five years a railway has been built over the ridge, upon which a steam engine of peculiar construction alowly drags a single car. The idea of piercing the mountain, and gliding from one country to the other in a few minutes' time, was first broached about twenty years ago, and, as a matter of course, was ridiculed by that large class of persons whose conception of what can be done is formed entirely in accordance with what they know has been done. All manner of difficulties and obstacles were suggested and declared to be insuperable, but the projectors believed they could be overcome. The governments of France and linky were applied to lend their assistance for the accomplishment of this stupendous undertaking. The feasibility of the work was argued at length before the legislative hodies of both these astions, and the result was itaely a confract for the work.

The fourth of the mountain, and those from the mountain, and those from the Frence side about 3 miles, the whole distance being 7 4.5 miles.

Four miles into the mountain, and those fremes and the Frence side about 3 miles, the whole distance being 7 4.5 miles.

Four miles into the mountain, and those fremes at the Frence side about 3 miles, the whole distance being 7 4.5 miles.

Four miles into the mountain, and those fremes at work. The drills above their tracks, the whole distance being 7 4.5 miles.

Four miles into the mountain, and those fremes at work. The drills and with more than a mile of Alps towering above their tracks, the visitors find the mean and machines at work. The drills make two hundred, revolutions a minute, and small machines at work. The drills make two hundred, revolutions a minute, and small machines at work. The drills make two hundred, revolutions a minute, and small machines at work. The drills make two hundred, revolutions a minute, and small machines at work. The drills make two

is route chosen was of course the of the funnel field has been nobleve

shortest possible line through the vast mountain range, as the altitude of the peaks or the general ridge made no difference with the work. The old plan of sinking shafts from the top at intervals, and working from one to another, was pronounced impracticable from the start, and a continuous boring from either end was determined upon as the only method of proceeding, the workmen being supplied with light and air as they retreated from the cheerful light of day and the whole some atmosphere of the onler world. The place was found about fifteen miles from the old Mount Cenis road, where a tunnel of 12,220 metres, or a little less than eight miles in length, would pierce the summer of others had been seriously wounded. Most of the accidents have oc-Of course, in such a work innumerable accidents must happen. It has been told that more than 1,000 workmen have lost their lives up to 1870, but the guides and directors declare that not more than fifty or sixty had been killed outright, though a number of others had been seriously wounded. Most of the accidents have occurred on the railway, from the falling of rock and from premature explosions. One premature explosion killed five men and wounded nine others, three of them fatally; and one rock falling crushed three men to death. It is not improbable, therefore, that during the twelve years in which the work has been going on at least one thousand men have lost their lives. The cost of the tanuel has been about 170,000,000 frances. eight miles in length, would pierce the mountain range and connect the town of Fourneaux, near Modane, in the valley of Fourneaux, near Modane, in the valley of the Arc, in Savoy, with Berdoneche, in the valley of the Dorariperia, in Italy, by a railroad over which a train of care of any desired length could run in a very few minutes. Between these two termins the tunnel passes under three mountains of considerable height even for Alpine peaks, known as the Col Frejus, the Grand Vallon and the Col de in Kone, ranged in the order in which they are here named as we pass from France to Italy. The contral summit is over 11,000 feet above the sea level, and by the old method of sink-

MISCELLANEOUS.

LAND PLASTER.

The work was begun in 1858. At first the ordinary hand-drill was used to pierce the rock, and the solid masses were blasted out with powder. This method of operation, which was kept up on the Italian side until 1861, and on the French side until 1863, would have required upward of fifty years for the completion of the work. Accordingly it behooved the projectors to bethink them of some more expeditious method of proceeding. The use of steam was out of the question, and the attention of the Italian engineers was therefore 300 TONS

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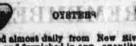
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works in a galley nine feet square, and carries a large number of perforators, each of which bores a separate hole in the rock. By the compressing machine the air is forced into a reservoir, and thence it passes through flexible pipes to the cylinders containing the drills of the perforating machines. By the opening of a valve, each drill is forced against the face of the rock with a force of about 200 pounds, turned alightly, and withdrawn. Two hundred of these blows are given every minute with each drill, and, when holes of the required depth have been bored, the No. 5 South Front St., Wilmington, N. C. POBT. J. SCARBOROUGH would inform his friends and outcomers that he has recently povested and refitted the above Saloon, and uld be pleased to receive a continuance of



the required depth have been bored, the air is turned off, and the machine withdrawn a short distance. The holes are boared in such a way as to converge slightly towards each other, so that every

GREAT SALE

CLOTHING

erable progress had been made, and sub-sequently, gon cotton was tried. This was afterward displaced by the use of nitro-BALANCE OF STOOK AT ONLY A SMALL

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5,000 LA NINFA'S Malaga Grapes.

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STATE OF NORTH CAROLINA.

COUNTY OF NEW HANGVILL SUPERIOR COURT.

COUNTY OF NEW HANOVIE, SUPERIOR COURT.

Ann Corcoran, Patrick Beban, James Behan, Patrick Hudson, Richard Hudson and Margaret Moore, plaintiffe,

Against

Bichard Murphy, Dennis Murphy, Dennis Behan, Patrick Behan, Catharine Duffy, Bridget Dulio, and the heirs of Kev. Thomas Murphy, deceased, whose names and places of residence are unknown to the plaintiffs—defordants.

TO THE ABOVE-RAMED DEPENDANTS.

You are hereby notified to appear before J. C. Mann, Clerk of the Superior Court of New Hanover county aforesaid, at his office in the Court Honse, in Wilmington, within twenty days from and after the 7th day of January, A.D. 1871, to answer the complaint filed in said Jourt for sale and partition of the real estate of Thomas Murphy, deceased. If the above named defendants fail to appear at the time and answer the complaint, the plaintiffs will apply for the relief demanded in the complaint. Herein fail not.

Given under my hand and seal of said Court this 23d November, 1870.

J. C. MANN,

Clerk Superior Court,

New Hanover County,

Dubbuttz Cuttlalt,

Attorney for Plaintiffs.

DUBBUTZ CUTLAR,
Attorney for Plaintiffs.

DAVID PIGOTT,

TOBACCONIST.

WILMINGTON, N. C.

BEEF-BEEF.

On AND AFTER THIS DATE, JANUARY Ist, 1571, no meat will be sold at our stall unless for cash. No distinction will be made. We feel thankful for the liberal patronage herelofors extended to us, and solicit a continuance of the same, but request that cash be paid hereafter. THOS. H. JOHNSON & BRO.

NOTICE.

Office Wilmerson, N. C., Life Inc. Co., Wilmerson, N. C., Dec. 30th, 1870. THE ANNUAL MESTING OF THE STOCK-holders of the Wilmington, North Carolina Life Insurance Company, will be held in this city on Thursday, the 12th day of January, 1871.

A. JOHNSON, Ja., Sec'y.

INSURANCE COMPANY.

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Men's Gaiters \$1 25;

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Childrens' Pore at \$1 75: Ladies' Fure at \$2 50;

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OFFICE OF COUNTY COMMISSIONERS, NEW HAROYER COUNTY, WILMINGTON, N. O., Dec. 16th, 1870. Ordered, That until the 3d day of Januar 1671, at 12 o'clock M., proposals will be received by the Board of County Commissioners for medi

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MONDAY, JAN. MO. 10,000 Numbers Put in the Whiel,

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