THE DESERET NEWS.

March 24

A WORD FOR THE MOTHER. tnated among men. A reason of re- Nelson in the chops of the channel. emies"-to use the very British the uncertainty, and to solve the gion. It is now recognized that But in 1826 the passage between expression of that especial Briton, matter will be the first duty of the Send the children to bed with a kiss and a the first temples of men were "cave- Rotherhithe and Wapping (about a Charles James Fox. But nature companies. To that end each will temples;" that is, holes in the quarter of a mile across) was again has no part in the antipathies sink its own shaft on its own shore, smile; Sweet childhool will tarry at best for a ground, dug into a long narrow en- attempted, under the guidance of which grow up between near to a depth of 300 or 400 feet, sufficitrance and terminating in a round Mr. Brunel. In 1827 the water neighbors, and Napoleon was wise ent to show whether or not the while: And soon they will pass from the portals of or elliptical cave. Such was the burst in, in spite of the caution with enough to understand his geogra- land stratum of chalk extends home, bottle-shaped cavern of Cuma, of which the shield was advanced, and phy. In 1802 he encouraged the downward on each side beneath The wilderness ways of their life-work to Eleusis, of Mithras, of Avebury, of the labor was suspended for a time. plan of M. Mathieu to unite the two the channel of the strait. Should Upsala, and 10,000 others, in all In 1828 a like accident occurred, countries by a tunnel, or something it be found to do so on both sides, parts of the world. Men were tun- and six men were drowned. After like a floating bridge, after the it would naturally be concluded Yes, tuck them in bed with a gentle "goodnelers everywhere, and when they this the work ceased for seven years. manner of the polygomphon odis that the chalk is in the middle night!" an ins booking bar did not want caves to live in they It was renewed in 1835, and con- ma, or floating causeway, built also, to furnish a solid roof for the The mantle of + hadows is veiling the light kept them as temples, and sub- tinued till the passage was com once upon a time by King Xerxes excavation, and not such a sandy And may be-God knows-on this sweet sequently as burial places. They pleted. It lies sixteen feet below across the Hellespont. The idea roof as broke so disastroualy into the little face, were also used as strongholds in the bed of the river, and is 1,200 was rather a wild one for that works of the Thames tunnel. For May fall deeper shadows in life's weary war, and in all old languages the feet long between the shafts on time, but Napoleon, who had no this experiment the companies are una erace. De antraish ant terms for "cavern" were terms for either bank-that is, something hatred of the English, favored it, sinking their respective shafts and Yes, say it: "God bless my dear children, I house, temple and arx. about a quarter of a mile. It has two taking occasion to say that Eng- galeries d'essai, or trial galleries. Another evidence of the old tun- arched ways, each sixteen and a land and France united could be It is estimated that the cost of the pray!" It may be the last you will say it for aye ! nel-craft of mankind is found in half feet high by fourteen feet wide, masters of the world-a "Napo- tunnel would be 100,000,000 francs, with a wall between them. It leonic idea," which subsequently or about £5,000,000 sterling, and The night may be long ere you see them "THE CATACOMBS," cost about £500,000, and was never influenced the policy of his nephew, that the work could be completed again: those things that lie at the bases of remunerative, being only used by Napoleon III. But the fierce wars in three years. The French are And motherless children may call you in so many great capitals and preserve pedestrians, who paid the toll of a came instead of the viaduct. In highly interested in the project, vain. owing is train the main such strange memories of an elder penny, and furnished just enough more peaceful times, over fifty since they lie in the track of a great Drop sweet benediction on each little head, state of society. The site of Egyptto keep it in repair. In 1865 it was years ago, MM. Tessie de Mottray railway such as will yet connect And fold them in prayer as they nestle in ian Thebes was once honey-combsold to the London Railway Com- and Franchot suggested the laying England with the Euphrates and bed ; ed with tunnels and caverns leadpany for £200,000, and is used as a of a huge east-iron tube in sections | Hindostan. The English are cau-A guard of bright angels around them ing from one great edifice to anconnection between their roads along the bed of the strait between tiously inquiring about the ventilaother, and as far as the great ridge invite, running on the northern and the French and English coasts. An- tion of such a tunnel. But it is The spirit may slip from the mooring toof Lybicus on the west, where for considered that the Hawkshaws, southern sides of the Thames. The other projector, M. Payerne, proages men had their homes of the night. tunnel was in fact a failure, and in posed a scheme of vast moles from Brasseys, Lesseps and other men of rock. In later ages, when the time to come a better one will no each side and a long bridge of solid science who advocate the scheme

THE GREAT TUNNELS.	10
NDERGROUND WORKS, BOTH CIENT AND MODERN.	AN-
THE TUNNELS OF ALBANO - CLAUDIUS-OF THE THAMES MOUNT CENIS-OF THE HOOS OF THE STRAIT OF CALAIS THE HUDSON.	-OF AC- -OF
Modern civilization means for most part fast going. Indeed human progress from the first be said to mean the same the rapidity of locomotion; and peoples most enlightened and ne talked of in history—Tartars, A rians, Huns, Greeks, Carthagini Romans were very fast goers by and land. The Romans were quickest marchers of the and world. These antique celer told most in war. Ours, more pily, run, and promise to run the ways of peace—though the marcks can see how they may the paroxysmal work of a suc campaign now and then. To m	i all may ing, the most ssy- ians, sea the ient ities hap- n, in Bis- help iden neet pro-
gress, men have invented railro and the tunnels are the nat corollaries of these. Those sub ranean passages are making th selves very important adjunct civilization, and the most aston ing feats of modern engineering performed by the tunnel-mak Just now the two great power	ters.

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Christian Cops went to live in those caves, their choice was a natural and familiar one, and they meant to live quietly and comfortably, and not in anything like privation or penance. The catacombs of Rome were residences of the poorer order of citizens, and subsequently burial places. Horace tells us how the Potter's Field of Rome was under the Esquiline Hill. It is said that the passages of the place would make a length of 600 miles, and that they hold the remains of 6,000,000 of the dead. In time, when the Subalpines have polished the upper aspect of Rome, travelers will go to look for her genuine antiquities under ground. Syracuse, Naples, Paris, and other cities have their catacombs; and all these are evidences that the early architectural notions of men were something like those of the teredo and the mole, and that of the Thames Tunnel, the governwhere they first scooped out their ments of France and Sardinia endwelling places they afterwards couraged the far grander enterprise built up their temples, palaces and of a passage through the Alps, unramparts. The Etruscan people were known near Mont Cenis. The idea of

ed instructors of the Romans. A besieged Veii, the Tuscan augur, or army chaplin, declared it could Prince Napoleon. As the height never be taken till the water could of the Grand Vallon did not permit was accordingly made, and it still

way. CHENE I STATE ANT IN HER LT. New

MONT CENIS.

Fourteen years after the opening der the height of Grand Vallon, In our own country the necessities of travel and trade have

doubt be built near that locality- masonry in the middle, strong would not do so if a sufficient curone that will allow the passage of enough to cope with the elements rent of air could not be maintained heavy trains or wagons. In 1869 of that stormy channel. The En- in the passage. At any rate, this another tunnel was carried under glishmen, Winton, Colburn, Chal- subject will be investigated by the the Thames at Tower Hill, and mers, Cowan, Page and others, two preliminary companies. completed in a year at the cost of were rather in favor of Mottray's £20,000. This allows the travel of plan of laying down the huge tubes

omnibuses. Another (a land tun- of cast iron, while many others (in esse or posse) cannot well connel has been made in Arthur contended for the long bridge, with clude without some allusion to anstreet, and another from Poplar to enormous piers and openings at in- other which would enable New Greenwich. Along with these tervals for the passage of ships.

miles of tunnelling for its great has been agitating the minds of fitable Island of Manhattan, and subterranean railway, and will English and French speculators be an achievement to throw into probably dig a great many more. and engineers, and at last a balance the shade its diminutive precursor So that, if it cannot boast of its of possibilities has resulted in a de- of the Thames. The company procatacombs, like so many other cided purpose. On the 24th of last posing to construct this passage, great cities, it seems bent on mak- January M. Calliaux, French Minis- about a mile long, from Fifteenth ing up the subterranean deficiency ter of Public Works, introduced street, in Jersey City, to Christoin another and more utilitarian into the Assembly a bill for the for- pher street, in New York, has got mation of a tunnel under the strait its senction under a general railof Calais, naming it a Project d' way law of the sister State, and its Utilite Publique. This bill was prospectus and plan have been passed. The application for the made known to the public. Meanconcession has been deposited with time, as an injunction has stopped the government, and signed by the work in limine, there is as yet Michael Chevalier, C. Bergeron, no real progress to report. But the Paul Christofle, Lord R. Grosvenor, Hudson Tunnel will be a great fact Sir W. Howes, F. Kuhlemann, of some day, and that no very distant from the earliest ages as first rate this was afloat in 1841, when Joseph Lille, P. Talabot, Thome de Gam- one. In a few years New York will craftsmen in the business of tun- Medail, of Bardonnecke (the Italian ond, and other men of note and have its rival wonders of engineernel-making; and in this as in many end of the tunnel), proposed to influence. Under this bill two ing skill to exhibit-her gigantic other matters, they were the learn- pierce Mount Frejus. In 1857 it bodies, composed of capitalists and bridge of the East River above, and was decided that the way should engineers, have been associated, one her tunnel of the Hudson below: remnant of their work is still visi- run under the Grand Vallon from to act in England and the other in two art achievements which will ble at the Lake of Castello, (Alba- Modane, on the upper side, to Bar- France, each to carry on from its be somewhat in keeping with the no,) built 300 years before our era, donneche, on the Italian-a subter- own side a series of surveys and natural grandeur of our harbor, and about sixteen miles from Rome. ranean distance of seven miles and explorations preliminary to the give the city a metropolitan dignity The lake is six miles in circumfer- a half. Count Cavour warmly pat- main undertaking, and each com- worthy of its wealth and inevitable Western Europe are bent on per- ence, lying 1,000 feet deep, in the ronized the undertaking, and the pany is to work on its own capital of expansion .- New York Times. petuating their entente cordiale by cup of an extinct volcano; and the cutting of the first sod at Mondane, 2,000,000 francs, or over £80,a vast submarine railway between story is told that when the Romans in the above year, was witnessed 000 sterling. The French comby King Victor Emanuel and pany is the Societe des Etudes, administered by a committee of which M. Chevalier is chairman. Already Messrs. Rothschild have subscribed one-quarter of the capital on the and London and the Chatham and French Side M. Lesseps, construcengaged in the course of the strait this matter than the English, be-

A TALK ABOUT TUNNELS.

Jersey to "cast out her shoe," London has dug three and a half For many years this great idea Scripturally speaking, over the pro-

Dover and Calais.

THE FASHION OF TUNNELING

be reduced in its bed. A tunnel any intermediate shaft sinking, the has a modern look, but it is a very labor was begun and carried on from old one. It is, in fact, one of the French side, and the French Nor- atives, in committee of the whole, the two ends toward the centre. oldest. The earliest human tribes carries off the water of the lake thern Railway Company one-half March 1, an amendment to the The work of boring was done in the lived in tunnels, that is, in caves through the hill for a mile and a old way, by hand, till 1861, when of the same. On the English side Sundry Civil Appropriation Bill, apand hollows in the earth, and were half, its arched opening being seven the engineers-Sommeiller, Gran- Sir John Hawkshaw is the engiall troglodytes. It was the Fall feet high and four feet wide. In a which had reduced those tribes to later age, the Emperor Claudius, dis, and Grattoni-devised a piece neer-in-chief, and the Southeastern that savage condition of life. The who loved the Etruscans and their of machinery, set in motion by earliest secular records indicate traditions, and kept a pet college compressed air, acting with a force Dover Railroad Companies are expenses in election contests, was of five atmospheres, through a largely interested in the enterprise, offered by Mr. Smith, of New York, that condition, and history shows of old augurs to teach engineering piston in a cylinder. With this as they well may be; while Mr. how it was perpetuated, and how as well as priestcraft, built a tunmen in comparatively modern ages nel three miles long between the half a dozen borers were driven Brunton, the well-known engineer, practiced that old style of domestic Lake Fucinus (Celano) and the simultaneously against the rock, has invented a new borer which will do even better than that used in the Congressional Recordarchitecture. The Greeks, when River Garigliano. This passage, and the advance was ten times as they had got a good many of the thirty feet high and twenty-eight fast as before. In 1866 half of in the Mont Cenis tunnel. On the comforts of life about them told feet wide at the entrance, was lately the distance had been excavattor of the Suez Canal, is ardently sire to say a single word in support ed, and in 1870 the workmen meetterrible stories of those troglodytes, repaired by the Neapolitan Governliving, they said, in Upper Egypt, ment, and is still in excellent or- ing at last, shook hands through tunnel, and has recommended it in tee on Elections has adopted the an opening in the tunnel. In 1871 Ethiopia, and other outskirts of the der. an address delivered before the rule in making these recommendathe way was open for travel, after world, and making their dwellings IN THE MIDDLE AGES the labor of fourteen years. This Academy of Science. Indeed, the tions to recommend the payment in dens, hollows and gorges, things the art of tunneling was disused, Frenchmen are more entetees on of the expenses in no case except great achievement encouraged men that were then called dargles, and and it only revives in our own time to hope for the removal of other are so called still among the Kelts | with the spread of the railway syslieving they would be the greatest mous. alpine difficulties, and at the presand elsewhere. In the warmer lat- tem. There are at present about itudes of Asia, which were evident- eighty miles of tunnel in England, making its way under the heavy ent time another railway tunnel is gainers by the achievement. THE TWO PRELIMINARY COMPAly the first haunts of the race, men | the longest passage, of 5,500 yards, mass of Mont St. Gothard. would prefer shade to sunshine, and being at Huddersfield. The long-NIES would look for the high rocky est in France, on the St. Quentin will now proceed to survey the road mously of opinion that the contest grounds in which they could make Canal, has a length of over 13,000 they mean to travel. They already was instituted in good faith and originated a great many tunnels, their burrows. Almost everywhere yards. But the English distanced know, of course, the soundings of for probable cause, and I submit the most remarkable of which i in Western Asia and Northern all competition in that line when the strait between the Bay of St. that the House can adhere to the the unfinished passage through Africa the elevated ridges had they built the Thames Tunnel. Margaret, near Dover, and Sap- rule which the committee has mica slate and quartz rock under their swarms of tenants from The idea of this originated in 1798, gatte, near Calais, a distance of adopted with perfect safety. the Hoosac Mountain, 18 feet high age to age. The rocks that bound when Mr. Ralph Dodd proposed to about thirty - two miles. These There seems to be, Mr. Chairman, by 14 feet wide, and destined to be ulation long before the Pharaohs tween Gravesend and Essex. In 180 feet. But the nature of the long. But raised pyramids and palaces on 1804 Mr. Trevethick made a trial on formation under the channel at a the more level ground. The the present site of the tunnel. He THE GREATEST TUNNEL IDEA OF depth of 200 or 300 feet is not ancient Etrurians were known made a passage five feet high and MODERN TIMES, known; and this must be ascerfor their skill in tunneling craggy three feet wide, and this he had or of any other times, is the pro- tained. If the hard pan of the botplaces, and the Romans, who carried nearly across to Wapping, posed passage under the strait be- tom is chalk, like the formation of learned from them, followed the when the river broke in and spoiled tween Dover and Calais, which the land on both sides, the projecand elaborated their domestic earth- quantity of cold water on the pro- renewing more intimately and far to proceed. If, on the contrary, and westward to Denmark and the it. They felt uncomfortable just land-an intercourse for ages of of 300 feet and more, they would British Isles. And there was an- then, knowing that the united mutual jealousy and war, leading scarely attempt to make a tunnel

Appropriations for Contested Election Expenses.

In the U.S. House of Representpropriating various sums to thirteen contestants and contestees for their and the following is a part of the discussion which ensued, as reported

Mr. SMITH, of New York. I deof the amendment. The Commitwhere the committee was unani-

I was saying that the committee went upon the principle of making no recommendation except where the committee was unani-

Egypt on both sides had their pep- make a way under the river be-ulation long before the Pharache tween Gravesend and Esser In 24,000 feet, or four and a half miles 180 feet. But the nature of the ment of the law in the last Congress. There was no provision of law that these expenses should not be paid under any circumstances, but in an appropriation bill a clause was inserted that these expenses same laws of comfort and safety, the experiment, throwing such a will, or would have the effect of tors will have solid encouragement tingent fund of the House. There works. It is the same everywhere ject that the English became dis- more profitably the ancient inter- the bed of the strait should be of The law prescribes that the con--eastward to Elephanta and Elora, gusted and would have no more of course between France and Eng- sand and alluvial earth, to a depth tingent fund of the House should only be used to pay the ordinary other grand reason why those earth- fleets of France and Spain were the people on either side to look on over thirty miles long through expenses of the contestant and grubbing customs where perpe- ready to try conclusions with Lord those on the other as "natural en- such a daugerous medium. This is contestee were not among the ordi-