

DESERET EVENING NEWS.

Job said: "The car trieth words as the palate tasteth meat." And in these days of printing, and of ad-vertising, the word "eye" may be substituted for "ear."

PART TWO.

A HINDOO WIDUW

SATURDAY, MARCH 25, 1905. SALT LAKE CITY, UTAH.

The Saturday "News" Special Foreign Service.

TRUTH AND LIBERTY.

FIFTY-FIFTH YEAR.

Special Correspondence, B ERNE, March 15.—Piercing the heart of the mighty Alps in a bee line for twelve and a quarter miles, the Simplon Tunnel, the longest in the world and the greatest underground engineering feat ever unlertaken, is now nearly completd. Last week the Swiss and Italian borings

Gruesome Evidence that the Horrible "Suttee" is Still Practised.

BURNED TO DEATH

HOW THE RITE IS CARRIED OUT.

Relatives of the Deceased Start Blaze That Reduces to Ashes Both the Living and the Dead

Special Correspondence. D OMBAY, March 15.-Despite all efforts of the Indian government to stamp out the horrible practise of burning widows alive on the funeral pyres of their husbands, in remote districts the "suttee," as the fanatical rite is called, is still practised occasionally with all the accompanying ceremonies prescribed by ancient traditions. Of this a gruesome instance has just come to light which shows, ineidentally, that the atrocious sacrifice is still regarded as a praiseworthy act of plety by many Hindoos, and but for the heavy restraining hand of British authority would probably again become

WIDOW A SACRIFICE.

A while ago, Chaudhri Missir, a Brahman who had held firmly to the faith of his fathers, died in the village of Sancharl, situated in a district where the occasional visits of the tax collector are the only evidences of foreign domination with which the inhabitants are acquainted. His relatives wished to give him an old-fashioned funeral, worthy of one who had been so scrupulous in the observance of all the ceremontals of his religion, and his widow, apparently, was nothing loath to offer herself as a sacrifice. Arrangements were accordingly made for the cremation together of the living and the dead on the banks of a small river. Some ground was staked off in the form of a St. Andrew's Cross on which the funeral pyre was built. After the body



CHIEF ENGINEER

Digging Underneath a Mile of Solid Rock bersome carriage. The Brandt drill has been been before attained in similar tunnel beings, frequently averaging 10 yards

In a Few Weeks the Simplon Tunnel, the World's Greatest Feat of Underground Engineering, Will be Practically Completed-Fierce, Internal Heat, Subterranean Torrents and Boiling Springs Among the Obstacles.

> was completed in three years, the average rate of advance being three times as fast as at Mont Cenis and nearly twice that of the St. Gothard. Immediately upon the successful termination of the Arlberg the scheme for the Simplon tunnel was broached and the Swiss and Italian governments were petitioned for the necessary consents and concessions. But so colossal seemed the undertaking that ten years clapsed before the project crystallized and another 13 years before the conventions were guaranteed on both sides. Work was actually begun on the tunnel two years later, operations being started simultaneously from the Swiss and Italian sides.

The difficulties of the undertaking were enormously increased by insistence on the perforation of the mountain at a comparatively low altitude instead of at a high altitude, which would admit of a much shorter tunnel. It is, of course, obvious that the higher up a mountain a tunnel la driven through it the steeper must be the approaches to it. It was decided that the tracks of the Simplon tunnel should not be carried to a greater altitude cutting by gravity from the Rhone than 2.810 feet, the Swiss entrance at Brigue being 2,250 fest and the Italian point three miles higher up the valley one at Iselle 2,076 feet above sea level. The increased length of tunnel ren-

ventilating shaft for the other. The twin perforations have been pushed through simultaneously, but only one, that on the eastern side, has been hewn out to its full dimensions. Until the traffic demands a second track No. 2 tunnel will serve mercly as a ventilating shaft. While the work of excavation has been under way this subsidiary tunnel has served also as a drain to carry off the great floods that have gushed from the interior, to transmit in mains the glacial water needed to cool the air and the heated surface of the rock and dilute the hot springs. Other mains have conveyed the high pressure streams to work the hydraulle drills. Water, that great miracle worker of cature, which in countless acons of time as hewn out that most stupendous

onder of earth, the Grand canyon of rizona, has been the chief agency in the accompaniment of this greates twentieth century feat of engineering By water-power driven fans pure Alpine air is forced into the tunnels at the rate of 60,000 cubic feet a minute. The hydraulic power which works the Brandt drills is obtained for the Swiss the water being brought down from At the works turbines of 2,225 horse nower each generate and transmi

HE WROTE CHILD'S

Another ingenious invention of Mr Brandt's employed in the Simplon the a half inches caliber and 300 feet in length, which discharges a projectile containing 900 gallons of water. It is fired simultaneously with the explosion of the dynamite cartridges in the holes made by the dells. This erset volume

of the dynamic carling in the holes in the hole minde by the drills. This great volum of water, impelled, with tremendou force, pulverizes and sweeps away th debris, preventing that accumulation of dust which plays have with miners mgs. Never before has an engineering w

of such magnitude been attended t such careful provisions for the safet and comfort of the men. To obvia the risks of pneumonia, dressing half are provided at either entrance. Or emerging in train loads from the galleries the men are compelled to enter these apartments, ready hented for their reception, and to stay in them for half an hour, while the temperature is gradually cooled down to that prevail ing outside.

UNDER A MILE OF SOLID ROCK

Notwithstanding that the difficulties be overcome were obviously so much reater, it was expected that the im-roved methods adopted would admit more rapid construction than in the Gothard tunnel. The contractors St. Gothard tunnel. The contractors has penetrated, "There's a Friend undertook to complet the first single for Little Children," published over 40

World-Simple, Happy Life.

Special Correspondence, ONDON, March 15 .- Translated into every tongue and sung the

BEST LOVED HYMN.

Albert Midlane Who Composed

"There's a Friend for Little

Children."

HALE OLD MAN OF FOUR SCORE.

Song Has Been Translated Into Every

Tongue and is Sung Over All the

world over wherever Christianity has penetrated, "There's a Friend



fidently expected that within a few months trains will be running-passing under millions of tons of solid, snowcapped mountains, with the rock in places considerably over a mile thick above the tunnel roof.

The obstacles encountered have been many and stupendous. Nature has opposed with all the might of her subterranean forces the invasion of the intrepid human burrowers. Landslides have intervened to stay their advance. Heat has done its best to baffle them. Imprisoned streams, cold springs and hot springs, have burst forth from the bowels of the earth, discharging sometimes from 10,000 to 15,000 gallons a minute 'to overwhelm and destroy them. These things have greatly retarded the progress of the engineers, occasionally causing them to halt for weeks while they summoned fresh powers of science to their aid: at other times reducing their advance by boring



the dead man had been laid upon it the widow bathed in the river and then, adorned as for a bridal, seated herself on the pyre alongside of her husband's corpse and called upon her son, Juggernath Missir, to perform his filial duty as a devout Hindoo.

GREAT CROWD PRESENT.

In the presnce of a vast crowd which had assembled Juggernath lighted some wheat stalks, and after walking three times around the pyre applied the lighted ends as custom prescribes, to the mouth of the dead man. This failed to ignite the pyre, however. Then four Brahmans, Balkishun Missir, Dwarka Missir, Ram Charan Missir, and Lachman Tewari-the three former near relatives of Chaudhri Missir-performed the "Humad." This consisted in the burning of incense and the placing of lighted chips of wood that had been dipped in melted butter beneath the pyre. Meanwhile the widow, seemingly absorbed in a plous ecstasy, gave no sign of fear. Just before the flames reached her, she stood up and turned to the setting sun, but immediately fell back on the pyre apparently overcome by the heat and smoke. I If n her agony she uttered any ories they were drowned by the shouts of the fan-atics, the clashing of cymbals, the beating of drums and the tooting of the Sank should Sank shells. And thus her ash mingled with those of her husband.

GOT WIND OF IT.

authorities got wind of the affair and started an investigation. They were met with point blank denials that ere had been any cremation either of e living or the dead. Perjury has the living or the dead. Perjury has been reduced to a fine art in India and in such a cause, lying is accounted ousness. But from the con radictory testimony of unwilling witment succeeded in getting at the govern-stantial facts of the case. Jugger-nath Missir, the filial son, was sent-enced to five years' imprisonment; the other Missirs got three years a piece; Lachman Tewari, one and a half years. Lachman Tewarl, one and a half years and a couch blower and a half years, and a couch blower and a couple of drummers will spend nine months in jail. They will all be regarded as martyrs when they regain their free-dom, but not for when years will an om, but not for many years will an-ther widow be burned at Sanchari or the district round about.

MARCONI'S PRAISES.

[London Cor. New York Sun.[William Marconi, the wirless telesraph expert, in a lecture before the Royal Institution announced an invention of great importance to the efficlency of his system, which has hitherto been hampered by inability to receive more than 24 words a minute, and this only by means of a telephone attached to the receiver. By this me-thod no documentary record of mes-

Mr. Marconi said: "I have been able Mr. Marconi said: "I have been able very recently to construct a magnetic detector which will work a relay, en-bling messages to be recorded on a tape by the ordinary Wheatstone re-corder. The new receiver is far simpler than any yet devised for wireless tele-sipphy. It requires less attention and is Eraphy, it requires less attention and is absolutely reliable. The principal ad-vantage is, however, that the re-ceiving speed is increased from 24 to 100 words a minute."

Mr. Marconi hinted at further improvements in receiving that he is elab-orating in conjunction with Prof.

and blasting to a few inches a day But never were they beaten; never did they deviate by a hair's breadth from the straight course that had been mapped out for them.

SUBDUING A BOILING FLOOD. Last October, when only two hundred yards separated the Swiss and Italian sections, the pent-up forces of old earth, as though bent on a last supreme effort to put an end to the attacks of dynamite and hydraulic drill. let loose a "boiling flood." That was how it was described at the time, though to be precise the temperature of the water was 133 degrees Fahrenheitquite sufficient to put a stop to human labor when the rate of flow was several hundred gallons a second. In many quarters it was gloomily declared that the work would have to be abandoned. and that six years of incessant labor and millions of dollars had been wasted. It was darkly hinted that the center of the mountain was a great "molten mass," through which nothing could penetrate.

The hot spring was several degrees hotter and much greater in volume than any that had been previously encountered. Its outburst at this spot had not been expected. But little did laymen appreciate the skill and perseverance of the engineers directing the work. They proved fully equal to grappling with the situation which had been deemed so terrifying. None of the water from the hot flood reached the. workmen until it had been diluted with cold water from the hydraulic mains.

At the same time the temperature of the air was cooled some 25 degrees by means of a high pressure water spray. And after a while the men were able to continue their tasks in a comfortable sort of shower bath. As for the "molten mass," that, of coulse, turned out to be a geological myth. In the building of the Simplon forces

of nature, harnessed and controlled. have been employed to combat other forces of nature, wild and rebellious or ponderously passive. Water derived from the Rhone on the Swiss side and the foaming Diveria on the Italian has supplied the power that has driven the hydraulic drills through the adamantine rock, subdued and diverted the sbuterranean floods and forced into the tunnel the fresh air and cooling spray from glacial streams, which have ren-

dered work possible in what would otherwise have been a suffocating inferno. THE CROWNING TRIUMPH OF TENCE.

THE WORKS AT THE SWISS END OF THE SIMPLON TUNNEL. The Wooden Fewer in the Pletaro is a Tempotary O.e for Connecting the Venillating Plant with the Tunnel. dered necessary was one of the least

achievement lies in the success of the measures adopted for safeguarding human life and health under conditions of deadly and stupendous peril. The St. Cothard tunnel, three miles shorter, and where the natural obsta-

les encountered were far less serious, alimed a toll of 600 lives, of whom 400 perished of pneumonia or "tunnel worm," and 200 were killed by explosions or crushed to death by passing trucks or falling rock. In the construction of the Simplon tunnel not one single case of miner's phthisis has occurred among the 3,000 laborers engaged in the borings, while only a dozen men have been killed at the works during the more than six years that they have been in progress,

Just as the terrible slaughter in the far east affords a measure of the progress of science applied to warfare, so the immunity from disease and small oss of life that has occurred in the making of the longest and deepest tunnel in the world reveals the advances made by science linked to industry. Truly peace hath her victores no less renowned than war.

The first of the Alpine tunnels, the Mont Cenis, seven and a quarter miles

long, begun in 1857, took 13 years to complete, the average cost being \$1,100 for every yard of its length. The second Alpine tunnel, the St. Gothard. nine and a quarter, miles long, was begun in 1872, and eight years later the borings met with wonderful exctness, the cost being \$710 a yard. The third tunnel, the Arlberg, running in a perfectly straight line for six and third miles under the Arl moun-

tains, afforded still more striking evidence of engineering progress. Begun only five months after the successful junction of the St. Gothard borings its But the crowning glory of the cost was only about \$500 a yard and it In this way each tunnel serves as a

of the difficulties which the adoption of this plan imposed on the engineers. The great depth of the perforation under the surface-at the summit exceeding 7,000 feet-made it impossible to sink vertical shafts for purposes of ventilation. Weight involves pressure and pressure produces heat. At the middle of the tunnel it was estimated that the crushing weight of the great superincumbent mass of mountain would heat the rock there to be bored through to a temperature approximating 110 degrees. It was foreseen, too, that subterranean springs and streams of varying volume and temperature would be encountered. Provision had to be made for draining the tunnel

while the work of construction went on and by artificial means supplying fresh air and cooling the temperature sufficiently to make boring operations possible. These things constituted the chief difficulties of the problem, and several eminent engineers declared them insurmountable.

REALLY IS TWO TUNNELS.

The contract for the colossal work was undertaken by Messrs,' Brandt, Bradau & Co., of Hamburg, and their preparations were made with characteristic German foresight and thoroughness 'To cope with all the obstacles, so vastly greater than those encountered form of construction was adopted differing from that of the three Alpine tunnels already bullt.

They are all double-track single tunnels. The Simplon consists of twin single track tunnels, 56 feet apart, and connected with one another by transverse gallerles at intervals of 220 yards.

through a hydraulic main a pressure giving 10 tons upon the cutting point of each drill. On the Italian side similar power is derived from the Diveria in much the same fashion. Wonderful machines are these Brandt

in any other subterranean railway, a f drills. They are the Mexim guns of aubterranean borings. Like Maxims, one of their advantages is extreme portability, for only four men are required to work and carry the drill. With three machines, which can all be fixed on one carriage, six holes can be drilled



the Swiss side. It was, therefore, de cided in May of last year to suspend operations on that section and concentrate all efforts on the Italian work-ings. Owing to the obstacles proving far more stupendous than had been

foreseen the work has already occupied nearly a year longer than was expect-

While only one track is used ar-rangements will be made, by widonrangements will be made, by when ing the tunnel at the center, for the meeting and passing of trains there, One of the transverse galleries will be converted into a station. While eating refreshments in a room whose roof is over a mile thick, the waiting passer In the hardest rock in a little more than two hours. The compressed air drills used in the St. Gothard tunnel necessitated 16 attendants and a cum-



ALBERT MIDLANE,

Author of the Famous Hymn "There's a Friend for Little Children."

track tunnel, the parallel heading and years ago, still remains the favorite the approaches to either side in five hymn of the young. Its author Albert approaches to either side the approaches to either side in five and a half years at a cost of \$14,000,000. But human intelligence cannot forecast with exactitude the conditions that ex-it over a mile hymn of the young. Its author, Albert Midlane, a hale, benign, sunny old man who celebrated his eightleth birthday st over a mile underground. In the last 600 feet of the Swiss ada few weeks ago, lives at Newport, Isle of Wight, where he has dwelt and la-

vance no less than 13 hot springs were encountered. After exceedingly pow-erful pumps had been installed to cope with them, there occurred a great Al-pine storm followed by a landslide. This ut off the water supply at the intake, stopping the motive power of the ma-chinery at Brigue, upon which depended the ventilation, refrigeration and drainage of all the tunnel workings on

ATORRENT

nearly cost him his life. All day the words had been haunting him as he labored at his trade, that of a tinplate worker, but it was not until late, after the household had retired for the night, that he found time to write them down. He was not then in good health; his work had been particularly hard that day and physically he was com-pletely exhausted when he set about his task. In his weakened state the ner-yous strain of composition taxed him severely, but the hymn had taken such a grip upon him that he felt he could not stop until he had hammered it out and given it permanent form on pa-per. As he finished the last words he collapsed utterly. He was found by collapsed utterly. He was found by his wife unconscious, his head reating on the feebly written page. Efforts to revive him proved fuille for a time, and it was feared that he was beyond recall, but he rallied at length and gradually his strength was reatored. He had no idea that the simple song which had been produced in such tra-vnit was a masterplace of its kind. It was first published in a local Sunday school paper. "Good News for the Lit-tie Ones." There it attracted the ar-tention of a London publisher, who ob-tained permission to include it in a col-lection of hymns he was issuing. It was set to musie by Michel Watson, its popularity was instantaneous, and has

opularity was instantaneous, and has

bored all his days. He has written for

me a verse of the famous hymn-a.fac-

simile of which is here reproduced-

and has given me some details of his

life, which will be read with interest

in America, where though every Sun-

day school is familiar with the song, lit-

NEARLY COST HIS LIFE.

He was 34 when he wrote it, and the

occasion was a memorable one, for it

tle is known about the singer.

CALLED TO REPEAT IT.

Long yours afterwards, when Mr. Midlame was an old more, he chanced to attend a service at the City Temple, London, whose pulpit was filled by the late Rev. Dr. Parker, then considered the most eloquent preacher in the me-tropolis. A member of the choir sang as a solo, "There's a Friend for Little Children," with such touching effec-tiveness that she was twice entreated to repeat it. The large gathering was resent. After the close of the sermon Mr. Midlane scribbled a note which an attendant took to Dr. Parker, and a meeting between them followed. "T would rather be the author of that hymn," said the famous divine, "than be the preacher of the most eloquent sermon. My sermon would simply pen-etrate the hearts of a few, but your hymn goes all over the world." Long years afterwards, when Mr

HAS WRITTEN EIGHT HUNDRED.

It is only one of something like 800 a has written, many of which are still general favorites. Most of them are for the young. His personality reveals his success in writing them. At four score his heart is still that of a little child. No doubts have ever disturbed his faith. Modern scopticism and the higher criticism have never shaken his implicit belief in the simple creed of the Quarker. He is a placed cortexted I the Quaker. He is a placid, contented,