DESERET EVENING NEWS: SATURDAY, DECEMBER 22, 1900.

"Kindle the Christmas brand and then Till sunne-set let it burne: Which quencht, then lay it up agen, Till Christmas next returne."

THE GREAT ARTIFICIAL WATERWAYS OF THE WORLD

the backbone of the American continent is to be divided and the long promised plished fact. Viewed in the light not transoceanic commerce. whatever may be the outcome of the of over 100 miles each in length which we take into consideration the weak ef-

Although it was well within the pres- | nals. ling motive of Vasco Nunez de Balboa, the Ottawa and French rivers, the Cawhen, Sept. 26, 1513, "silent upon a peak | nadian government will possess a work | looked upon the waters of the Pacific.

The centennial of canalization in the favor. United States was celebrated in 1892, Massachusetts. But George Washing- to parallel our Atlantic coast from Boston has been called the "father of the ton or the north shore of Cape Cod to canal system" in our country, owing to New Orleans or Galveston, cutting artificial waterway to connect the Po- passing through Long Island sound, bedraft war which

THE recommendation of the 1sth- | was ultimately carried out in the great | one plucky American demonstrated the mian commission is to be adopted, Chicago drainage canal in more recent feasibility of passing from the St. Lawconer or later it would seem that times rence to the gulf of Mexico nearly all

While we have, it is estimated, more the way by natural water courses and than 5,000 miles of canals within the inlets, when Mr. Nathaniel H. Bishop limits of the United States, none is made his wonderful voyage of nearly canal connecting the waters of the At- large enough to float modern warships 5,000 miles in a paper canoe. jantic and Pacific become an accom- of deep draft or vessels intended for In the old world, attempts at canalizaonly of recent but ancient history, There are more than a dozen canals the discovery of the new world, unless

purposes. The first ship canal or waent century that the United States gov-ernment had its attention directed to Marie, connecting Lakes Superior and syrian, but the Egyptians and the Chithe feasibility of a transisthmian caual Huron, has been enlarged and deepen- nese possessed some canals of note, for and only in 1805 that the famous sci- ed since its original construction in preity reliable evidence has been adentist Von Humboldt declared it prac- 1855, and the Canadian canal, the Wel- duced to show that Egypt once united ticable, yet nearly 400 years have pass- land, between Lakes Erie and Ontario, the waters of the Red sea and the Meded since the search for a waterway con- has also been made deep enough for iterranean by disging across the isthnecting the two oceans was first be- gunboats and most war vessels. In the mus of Suez, while China today posgan. Christopher Columbus was look- proposed ship canal connecting the St. sesses its Grand canal, over 1,000 miles ing for it in 1502, and it was the impel- Lawrence and Lake Huron by way of long, which is said to have taken 120 years to build.

in Darlen," he, first of all Europeans, of inestimable value which may change astronomers tell us that there are cathe balance of trade considerably in its nals in the planet Mars, by means of

The really great undertaking for this for it was in 1792 that two short canals government to prosecute, many noted tians, using them as the basis of sigwere opened on the Connecticut river in engineers have averred, is a ship canal naling through ethereal space?

tion were made many centuries prior to

intest investigation, there is no doubt are entitled to the designation "great." forts of the peoples anciently dwelling that the American interoceanic canal Heading the list is the famous Erie, 360 here and who are now extinct. Artifiby some route is an eventuality of the miles, connecting Buffalo and the Hud- clai waterways, in fact, are of almost future comparatively near, taking into son river. All these, however, are of if not quite, equally ancient origin with account the gigantic nature of the task comparatively shallow depth, and few roadways on land, having probably and the necessity for careful prepara- are capable of being enlarged to meet been originally constructed for irrigathe demands of the times as ship ca- tion and secondarily for transportation

Passing to other worlds, do not the

which it is hoped to secure ultimate communication with the remote Mar-The largest ship canal in Europe until

quite recently was that which placed Amsterdam, Holland, in connection his early and persistent advocacy of an across the Massachusetts peninsula, with the North sea. This has a length of 51 miles, a surface width of 124 feet tomac and the great lakes, which di- hind the New Jersey coast, Cape Hat- and a depth of 18 feet, permitting the rectly resulted in the Chesapeake and teras, etc., through the marsh regions passage of 1,400 ton ships. In Great Ohio canal and indirectly, it is claimed, of Georgia and across the peninsula of Britain there are more than 2,000 miles in the Eric. President Madison urged Florida to the gulf of Mexico. Such a of canals, but until the great waterway the uniting of the great lakes with the canal, they say, could be provided at was opened to Manchester a few years Mississippi river by a ship canal suita- comparatively small expense and with- ago, the largest work of the kind there At least | was the Caledonian canal, which had int a lock the entire distance

A Jolly Christmas Morning Group.



route, of the Nicaraguan if may be safely asserted that it is comparatively healthful. The chief objections to it are its length and the elevation of the country through which the canal must pass. As against only 35 miles and the possibility of a sea level canal at Panama, there are the distance of 186 miles and an altitude of 110 feet, necessituting numerous locks, in Nicaragua There are no physical obstacles that cannot be overcome, as all the various commissions have reported, but enormous expenditures will be required, es. limates varying all the way from \$120.-00,000 to \$200,540,000, which latter is that of the last and most exhaustive urvey over carried out. This estimate. however, was based upon a canal to be in feet deep, in anticipation of future exigencies: but if the depth were to be reduced to 30 feet a saving of perhaps \$20,000,000 could be effected. The necessary locks and an immense dam for Impounding the waters of the San Juan river make this route the most expensive, probably, that could be selected; but, on the other hand, its hydrographic and topographic, as well as climatic advantages, are indisputable, with a large and deep lake (Nicaragua) at an elevation of over 100 feet above sea level and a perpetual supply of water easily controlled.

Taken all in all and after reviewing the evidence pro and con, it appears that the ship canal to connect the two great opeans of the future will probably pass over the Nicaragua route.

The following table of comparative distances shows the number of miles in water travel saved by the use of canal routes built and projected:

Distance saved between-	Miles.
London and Bombay	4,858
New York and San Francisco	9,620
New York and Hongkong	8,240
New Orleans and Honglong	0,000
New Orleans and San Francisco and transmission	11,000
New York and San Francisco-concentration	10,000
New York and Yokohoma	7,000
New York and Melissume	2,000
Liverpool and San Francisco	7,090
Liverpool and Hongkong	1,100
Liverpool and Yokohämas concommentation	4,000
Liverpool and Hawalloutertertertertertertertertertertertertert	5,000
The distance from Nicaragua to	
New York is	2,000
San Francisco in	2,7(6)
Honelulu in	4,200
Manila is., concernante contractions	9,000

TRUMAN L. ELTON



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then princely gifts upon His cot were laid By star-lit sages from a distant clime, And choir angelic airs scraphic played. No signs forecast the ills of coming time.

There was no presage of that fateful year. The crucifixion, or the stranger's tomb, Of the dismay that filled all hearts with fear When the earth shook, mid universal gloom,

The veil that hides the future from our ken Obscures in love, for who would dare pursu The toilsome journey that's outlined for men. If all the future ills of life they knew?

But He, the sinless one, foresaw them all-The fiery ordeal which before Him lay, ind, though He shrank from ills that would befal He went where love and duty led the way.

He taught us love should dominate the mind. Love that forgives, would fain forget a wrong. And that the kind and tender ever find Joys which to selfish persons ne'er belong.

If wealth were requisite for highest need. Or ease untroubled led us near to God. Christ would have traced some other path to lead Our halting footsteps than the road He trod.

he rank and pride and grandeur of the great. The Mammon power to which the servile kneel. Were naught to Him who chose a low estate And on man's toil put His approving seal.

The poor man's Christ, for poverty He knew In birth. in life, in death, rebuked the pride That measures men by standard of the few. Not by the worth which will God's test abide

THINGS OF THE MOMENT.

Greenland exports oil of seals and to wild animals has just become law in the inventor of the planoforte. whales, fox, seal and reindeer skins, England. It extends the provisions of A statue of Peter Henlein, who is said ider down, feathers and cryolite. Its the "crueity to (domestic) animals act" to have invented the watch toward the ley county has but 4 residents, Cockran litants.

sichord made in 1703 by Christofero,

tion

Photo by Mellen, Chicago,

total length of 60 miles and a depth of Red sea 30 feet higher than that of the Mediterranean were found to be erro-20 feet.

The Manchester canal stands unique | neous by a combined survey of French. in the history of artificial waterways, English and Austrian engineers in 1847. since it was dug to connect with the sea when the true level was ascertained. a city without a harbor. It is 30 miles M. De Lesseps secured a concession for ong, has an unobstructed channel 26 the canal in 1854, and a company was eet deep and cost more than \$75,000.000. organized in 1858, with exclusive guarthe estimate having been \$45,000,000. As antees for 99 years. His original estian example of enterprise on the part mate was \$40,000,000 for the total work, of merchants and manufacturers, this but when it was completed, in 1869, its attempt to convert an inland city into real cost amounted to \$99,000,000. Yes a maritime metropolis-to bring the even on this vast sum it is said to have ships to the factories rather than re- paid a good profit, though the original move the latter to the coast-is almost stockholders may not have shared in it. In its length of about 100 miles about 75 inprecedented.

In France the Canal du Midi, con- miles were land excavation and 25 miles structed more than 200 years ago, is 150 traversed the takes. Its width at surmiles long and 60 feet wide, but not face averages 325 feet, at bottom 72. over seven feet deep. A ship canal is, while the depth is 26 feet. however, projected to unite the waters Recurring now to the ship canal that

of the Loire and the Rhone, thus con- comes nearest home-to the prospective the Mediterranean.

necting the Atlantic and the Mediterra- cut across some portion of Central nean. It will shorten the distance, say, America-it may be noted that four between London and India, by at least routes have been in view for many ,000 miles, but it will also take away years. These were, first, across the British prestige by leaving Gibraliar isthmus of Tehuaniepec, in Mexico. high and dry and no longer the key to second, along the southern frontier of Nicaragua: third, across the isthmus of What is likely to be the longest canal Panama, and, fourth, across Darien.

in the world is that projected across The first has been pronounced imprac-Russia from the Baltic to the Black ticable owing to diplomatic as well as sea, a distance of 700 miles as the crow physical obstacles in the way, though flies and about 1,000 as canal and it is in some respects admirable. It is rivers must run. By means of this ca- 130 miles from east to west side, with nal Russia would be made independent an ascent to 680 feet, and the river Coof Turkey and all other powers in fact, atzacoalcos extends three-fourths the for it is intended to cut it to a depth way across.

sufficient to permit the passage of the Surveys have been carried on in a largest battleships. It is to be 200 feet desultory manner by the United States wide at surface, 115 at bottom and 27 government during the past 40 or 50 feet in depth. Its cost is estimated at years, and the engineers have finally from \$55,000,000 to \$100,000,000, but will settled upon the very routes chosen probably exceed even the larger figures. more than 200 years ago. Though a The German government, as is well route across Darlen, to the south of known, has been indefatigable in canal Panama, has been frequently advocatdigging, its latest great work being the ed, the final choice now lies between famous Kiel-North sea canal, which is Nicaragua and Panama. The distances 64 miles in length and about 30 feet between ports of the north Atlantic deep and cost nearly \$40,000,000. It was and Pacific coasts are approximately opened in 1895 with brilliant ceremonies, the same via either Panama or Nicathe emperor himself presiding, when a ragua, each section having its compen procession of merchant steamers and sations and disadvantages. Panama warships sailed through, taking five as all the world knows, has already been exploited to a greater extent than hours to pass a given point. It is believed that all the greater Nicaragua. De Lesseps' original estiworks of this character have been cited, mate was \$240,000,000, and actual work except, of course, that most famous of was begun in 1881, but it is said that all, the Suez canal, the history of which from \$250,000,000 to \$300,000,000 have alis well known. A ship canal may have ready been expended, and that at least anciently connected the waters of the \$150,000,000 will be necessary to finish Mediterranean and the Red seas; but if the work, which is not more than half so it had been filled up and abandoned or two-thirds completed. In Panama for nearly 1,100 years when De Lesseps the Culebra mountain, 400 feet high took held of the more modern enter- and the intermittently torrential Chaprise. The first of modern surveys of gres river, with its deadly fevers, are this route for a canal were made under the two chief deterrents to successful orders of Napoleon I during his inva- operations.

sion of Egypt, but the reports of his | Without entering into a discussion of engineers in making the level of the the respective advantages of either

some curious facts. For instance, Bai- state of Ohio and has but 6,804 inhab- the lighting of the station.

Among these is a three keyboard harp- Hin, was exhibited at the Paris exposi- by prairie dogs, jack rabbits and rattle- flame several feet in height. The rall- peculiarly adapted to the industry, as snakes. Tom Green county, the largest way company has accepted this unex- 100 tons of coffee were exported from The census returns of Texas present in the state, is larger than the whole pected gift of nature and applied it to Uganda alone last year. The result of this year's production will be even The coffee growing industry in trop- greater.

"WASN'T SANTA CLAUS GOOD TO ME?"

the crueity to tabinestic, and and a contract of the fifteenth century, is to be has 25. Andrews has 37. Lynn has 17 Heathfield, a village near Tunbridge loal Africa is developing tremendously. Andreas and Anton Lang visited the cross of the inteents century, is to be and Dawson has 35. Twenty-five other Wells, England, has been looking for The seed was introduced into that coun- pope of Rome a few weeks ago in their An African who had visited England level was birtouced into that act. The pope of Rome a few weeks ago in their level was birtouced into that course pope of Rome a few weeks ago in their level was birtouced into that course pope of Rome a few weeks ago in their level was birtouced into that course pope of Rome a few weeks ago in their level was birtouced into that course pope of Rome a few weeks ago in their level was birtouced into that course pope of Rome a few weeks ago in their level was birtouced into that course pope of Rome a few weeks ago in their level was birtouced into that course pope of Rome a few weeks ago in their level was birtouced into that course pope of Rome a few weeks ago in their level was birtouced into that course pope of Rome a few weeks ago in their level was birtouced into that course pope of Rome a few weeks ago in their level was birtouced into that course pope of Rome a few weeks ago in their level was birtouced into that course pope of Rome a few weeks ago in their level was birtouced into that course pope of Rome a few weeks ago in their level was birtouced into that course pope of Rome a few weeks ago in their level was birtouced into that course pope of Rome a few weeks ago in their level was birtouced into that course pope of Rome a few weeks ago in their level was birtouced into that course pope of Rome a few weeks ago in their level was birtouced into that course pope of Rome a few weeks ago in their level was birtouced into the course of the second was birtouced into the course of the second weeks ago in their level was birtouced into the course of the second weeks ago in the second was birtouced was birtouced was birtouced and the second weeks ago in the second weeks. The pope re-

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The London of the Romans lies buried about 18 feet below the level of Cheapside, and still deeper than that is buried the earlier London of the Britons. In nearly all parts of the city there have been discovered tessellated pavements, Roman baths, tombs, lamps, uses, sandals, keys, weapons, coins and statues of the ancient Roman gods



