DESERET NEWS. THE

The Northwest Passage.

ly been mere matter of theory and conjecture.

of the House of Commons, which contains the way of Dease Straits. has remarked, "put a girdle round the great con-tinent of America." was found by Captain Colinson in Dress Strait, probably drifted down Peel Sound at least as far

had already looked for him from the eastern.

when she passed Cape Lisburne, the Investigator the precise course of the whole of the two water had reached Cape Bathurst, having in the interval passages from the east to the west across the threaded her course amidst sand banks and heavy Arctic zone. masses of ice, a great portion of the time envel- What practical results may be attained by the oped in thick fog, where the lead was the only recent discoveries, which have cost so much exually performed, and to a greater distance by others-to be impracticable for any useful end. Capt. Collinson. a sledge expedition to Point Russel, on the same found "down Peel Sound," in the direction purlongitude and sixty miles south of the place sued by Franklin, and that the route Capt. Colreached by Sir E. Parro from the east in 1820, linson took is likely to become the "course which from which, at an elevation of six hundred feet, whalers and other ships will follow for mercanhe was enabled to see, stretching out in the dis- tile purposes." tance, the vast frozen waters of Parry or Mell- The committee in their report, and several of ville Sound, confirming to his mind that, in that the gentlemen from whom evidence was taken, to the Atlantic Ocean certainly existed," and that pecially Mr. Grinnell, who have sent expeditions before him, from another direction. He was not so they had not failen into the old error of denomdestined, however, to penetrate to the east at that mating "Grinnel Land" 'Albert Land,' as they ity were to elapse before he should accomplish their labors. The British Admiralty conceded until July 14th, of the following year, 1851. Capt. -[N. Y. Journal of Commerce. McClure then returned southward, and resolved to persite the hardy and unprecedented course of sailing round Baring Island into Parry Sound. It is this part of his expedition which most redounds to his honor. Rounding Nelson's Head, Professor of Botany in the "Wagner Free Instihe battled his way towards the north around the western coast of Baring Island, making, for the first time, what he calls in his despatch "the terrible passage of that terrible Polar sea," until, after many providential escapes, he succeeded in bringing his ship into a bay, never visited before, on the northern coast, which, in thankfulness for his prese vation, he appropriately called the Bay of Mercy. Here he was destined to remain for nineteen months, and might have perished but for a fortunate inspiration in April, 1852, which induced him to cross over to Winter Harbor, on Mellville Island, in a sledge, and there to deposite a cylinder containing a summary of his proceedings. This cylinder was found by Capt. Kellett the next October, and to it Capt. McClure probably owed his preservation. On the 6th of April, 1855, one year after his expedition to Mellville Island, he received a communication, brought by Lieut. Pim, who had been dispatched by Capt. Kellett, which induced him to start on the very next day for Dealy Island, a small Island off Mellville Island, which he reached on the 19th. On the 3d of June following he determined to leave the "Investigator," in the Bay of Mercy; on the 18th of August he quitted Dealy. Island, with his crew, in Capt. Kellett's ship Resolute; remained near Cape Cockburn, where they were were frozen in, until the 10th of April. 1854; proceeded thence by sledge one hundred and eighty miles, to join the North Star, at Beechy Island; sailed down Barrow Straits, and was transferred to the Phoenix early in September, and arrived at Cork on the 30th of the same month, having been four years and eight months in acquiring the high honor of having effected, for the first time. the passage between the great Atlantic and Pacific Oceans. The testimony of the physician of the Resolute, Dr. Domville, is clear upon the point young shoots, and other green parts, always con- blades of straw, and often conveys them high that the state of Capt McClure's crew was such tains a fluid thicker than the fluid which surrounds above the earth, whole versts away. It levels stawhen Lieut. Pim arrived that they never could their roots in the soil. The denser fluid in the bles and barns, unroofs houses, and throws down have reached the east, and would probably not plant, therefore, attracts, by means of the delicate church towers, so that the district it has visited have been able to retrace their steps westward, if fibre-cells forming the roots, the moisture from looks, after its destructive passage, and for distanaid had not arrived; and the committee of the the soil, which thus enters the plant by endosmo- ces of several days journey, like a land ravaged House of Commons have therefore awarded high sis, just as the water contained in the tumbler is by fire and sword. On all sides are seen herds

passage was possible from the old world to the tude, and which is practically useless for purposes ed into exercise in procuring the food. Indies, the minds of navigators have never ceased of navigation; and the second down Peel Sound ent forms. And after Cape Horn had been dou- into Prince Albert Sound, which separates the that of plants: for their food has to be both pro-Sir John Franklin enabled geographers to lay central point, to which it is proved that he pene- the functions of animal life; its digestion and abdown positively on their charts what had previous- trated through Barrow Strait and Peel Sound sorption when there are altogether involuntary .-

Arctic Seas commanded by Capt. McClure, of let of Peel Sound, and states that but for the that he and those under his command were the Captain Kellett, Mr. Rae, Mr. Arrowsmith, Sir first human beings of whom a record is to be Roderick Murchison, Capt. Washington and othfound in history who penetrated from ocean to ers, that no doubt can exist of the fact that Sir ocean in the Arctic zone, and, as Lieut. Maury John Franklin's ships, a fragment of one of which

probably drifted down Peel Sound at least as far The Investigator, commanded by Capt. Mc- as the Northern coast of King William Island. Clure, passed northwards from Behring's Straits There are about ninety miles of Victoria Strait of in the month of July, 1850, with the object of which it must be said that no record as yet exists searching for Sir John Franklin from the western that it has been explored, but of which it is known side of the American continent, as other vessels that Sir John Franklin left at one and was found at the other; and this short distance is all that is Within a few days of one month from the time now required to establish the fact on the maps of guide. In September she made Baring or Bank's pense of time, money and life, it is not easy to Island, and then went up a strait, to which Capt. foretell. The passage discovered by McClure, McClure gave the name of the Prince of Wales, was declared by those who were examined before which he explored for the first time, although the committee of the House of Commons-all his the same service was soon after still more effect- own testimony was equally strong with that of Sir Roderick Murchison, however, believed that On the 26th of October, Capt. McClure made a "really navigable track for vessels" may be direction, "a north-west passage from the Pacific paid a high compliment to those in America, eshe was near to where Parry had formerly come to the North. We could wish that while doing time. Nearly two years of suffering and inactiv- have done in the valuable chart which illustrates the task, and then not by his own will, but in authoritively last year that to American enterconsequence of the chari able exertions of Capt. prise belongs the priority of discovery at the Kellett, who sent relief to him from the east and northern outlet of Wellington Channel, and the enabled him to pass through to Beechy Island. promise was given that the name bestowed by The Investigator was frozen in at the upper our navigators upon the frozen promontory should end of Prince of Wales' Strait, where she remained be henceforth given to it in the Admiralty maps.

gone before." It appears, indeed, from the evi- and has to be introduced into a digestive cavity of Since the period when, over three centuries dence received by the committee, that there exist the stomach. The organs for its prehension and devoted to annihilation. and a half ago, Christopher Columbus wandered two passages from the Atlantic to the Pacific- preparation are most beautifully adapted to the from country to country, endeavoring to convert the first persued by McClure, which is nearly on peculiar food habits, and instincts of each animal; the courts of Europe to the belief that a western a straight line between 74 deg. and 75 deg. lati- and both the senses and muscular system are call-

Thus, at the very outset, the nutritive apparato be agitated by the same question under differ- and Victoria Strait into Dease Straits, and thence tus of animals is much more complicated than bled, the ice-bound problems of the magnetic pole continent from Baring Island. No one has ever cured and prepared by themselves before it can and a northwestern communication by water with made this second passage from ocean to ocean; be assimilated. Now, the introduction of food Asia remained unsolved, and continued so until but the mouth of Back river, where the remains into the digestive cavity or stomach is wholly a the expeditions connected with the search for of Sir John Franklin were found, constitutes a voluntary act, and results from the exercise of from the east, while Capt. Collinson reached After having swallowed the food, it passes out of We have received a pamphlet, printed by order nearly the same spot in 1853, from the west by the domain of the functions of animal life; we having nothing more to do with it. We feel inreport of the select committee appointed to inquire Capt. Collinson positively establishes the fact vigorated because the vegetative part of our nature into the circumstances of the expedition to the that this latter channel expands into the great out- is now called into exercise. The whole process nature of the services rendered to science by him- Barrow Strait, and so home; and it is the declared and finally to a condition fit to enter the circula- fered, and no loss sustained. self and his crew; and it appears beyond a doubt opinion of Sir James Ross, Sir John Richardson, tion, proceeds without our consciousness; all these internal operations are purely vegetative, men with plants.

> stomach, digested, and reduced to a fluid of a Pacha. 45,000 men; at Kars, under Gens. Yusseff whitish color named chyle, is absorbed thence by and Williams, 18.000; at Erzeroum, under Vely the radicles of a special system of vessels named and Hafiz, 12,000; at Trebizond, under Selim, 8,the chyliferous vessels, which reunite into branch- 000; in the Crimea the main body of the A lied es more or less voluminous, and ultimately meet army on the Tchernava and elsewhere, 95.000; in a common trunk, called the thoracic duct. at Eupatoria, under Gen. D'Allonville, 60,000; This duct, which is about the size of a common (at Kertsch, 16,000; at Kinburn, 12,000; on their quill, conveys the chyle to its point of junction way to reinforce the corps at the mouth of the with the subclavian vein at the lower part of the Dnieper, 25,000; at Sebastopol, 8,000; reserve in neck, pouring into the torrent of the circulation. | the camp at Maslek, 10,000. The blood thus enriched is spread through every part of the body by means of a system of tubes expressly developed for its conveyance, and which than true, that hundreds of people who own and branch off in every direction, ultimately in capil- are living near saw-mills, know that sawdust laries or tubes of fine, hair-like calibre or bore .- | contains great fertilizing properties, and yet do These capillaries alike pervade the solid substance not try to save it. But, on the contrary, many of the bones and the softer tissues of the body; mill-owners expend a great deal of money in conand it is through them that the blood or nutritive structing railways and cars to carry off the sawfluit is thus carried to all parts of the organism. dust to some stream of water, that it may be All these internal operations are beautifully il- | washed away. lustrated in the fabric of plants. The lacteal ab- How often, when I have seen the water in the sorbents in the stomach correspond clearly to the river literally thick with sawdust, have I thought roots of plants in the soil; these communicate what a pity it is, that so many hundreds of tons with subterranean branches, which ultimately of such excellent manure should be annually unite and form a common trunk. This trunk thrown away, and, at the same time, hundreds of rises from the soil and ramifies in the atmosphere, acres of land in the same neighborhood, lying conveying the nutritive fluid or sap to the capil- idle and useless, waiting, as the proprietor says, laries in the leaves, in which the fibrous portion for a "renovation " Now, farmers, this thing of of the branches ultimately terminates, just as the leaving your old fields to renovate, is a poor thing. blood is conveyed by the arterial ramifications to Go to work and renovate them yourselves. Clothe capillary system, by which it is spread through ver them well; scatter over plenty of manure, and, all parts of the body. It is in the leaf that the if you can get it, pile on the sawdust, and very sap undergoes those changes which render it sub- soon you will have no barren fields to disfigure servient to vegetable nutrition. The design of your farms. nature in forming a leaf is evidently to spread the fluid over a horizontal surface, so as to expose it cattle of any substance that I am acquainted with. fully to the influences of the light and atmosphere. The leaf is the vegetable laboratory where the sap is elaborated into these elements which contribute to the growth and development of the vegetable organism.

where they hoped and believ ed that he had already with their organs in a more or less solid condition, his visits are not for every generation; but when he does come all that his icy breath touches is

This is the Russian Winga!"

Progress of the War-Movements in the Crimea.

EXPEDITION TO TAMAN AND FANAGORIA.

On the 24th September, a squadron of the Allied fleet sailed, with 300 British infantry, under Major Hunter, and 600 French, on board, to destroy the Russian establishments at Fanagoria and Taman, with the purpose of depriving the enemy of his means of sheltering troops, during the coming winter, and to procure materials for housing the Allied forces at Cape St. Pauls and Yenikale. Simultaneously with this attack, a demonstration was made against Temriouk, by the Azoff squadron. Both operations were successful. The Allies destroyed and carried off quantities of builof chymification and lacteal absorption, by which ding materials, and found, within the defences, the British navy, with a view to ascertain the want of fuel he should have gone that way into the food is reduced to a fluid state in the stomach, about 70 disabled guns. No opposition was of-

A circular published at Vienna. estimates the Turkish and Allied forces at 300.000 men, excluproceeding from that life which we have in com- sive of the Turkish army of 24,000 men on the banks of the Danube. These troops are distrib-The food having been introduced into the uted nearly as follows: At Batoum, under Omar

Animal and Vegetable Physiology.

BY HARLAND COULTAS,

tute of Science."

In the plant we have life simplified for our in- a priest, the latter is thus described: struction. The absorption of food into the organism, and the mode of its conveyance and dis- "A prelude to the last day" answered the ed that attention to which it is so justly entitled. laws of endosmosis and capillarity, which will be cue. clearly understood if the following beautiful, but "An icy shower of snow is the forerunner of simple experiment is performed. 1 seek).

RUSSIAN STORMS .- A traveler in Russia says that the storms of that country are divided into three classes, the first and mildest kind is called and the third, which is absolutely terrific, the Winga. In a conversation between himself and

"What, then," cried J, "is the Winga?"

SAWDUST FOR MANURE .- It is no less strange

Sawdust makes the best bedding for horses and Wherever it is put, there it will stay; they cannot scrape it from under them as they can straw or hay, and it is equally as soft to lie upon as either; and throw it out every day on a pile, and it makes the very best manure in the world. Not only is sawdust good manure after being used for bedding, but it is also good to apply it clean. In the spring, when you are digging over your garden, impregnate the soil with sawdust; it will keep the ground loose, and render your garden more prothe Mintsel, the second, more severe, the Samjots, ductive. Scatter clean sawdust over your meadows and around your fruit trees. In short wherever you want an abundant crop, there put sawdust .-- [Dollar Newspaper.

tribution to the different parts of the fabric, are priest. "Fortunately, unmistakable indications precisely the same in plants and animals. Nature announce its coming for some days beforehand. is simplicity itself. She has the same object in Then nobody sets out upon a journey, not even view, and therefore, she pursues the same meth- to the next village, though it is but a verst or two od; and the absorption of the food from the soil, off. Precautions are taken for the safety of the and its distribution through the branches and house, by protecting it, on the north side with leaves of a plant, are one and the same process as heavy stones, and by propping it up, as well as that which takes place in the animal body. This barns and stables, on the south side. The tabunen important principle in physiology has not receiv- (troops of wild horses) scamper in all haste to the nearest forest; droves of cattle and flocks of Water is necessarily the vehicle of the nutri- sheep seek shelter wherever it is to be found .-tive substances from the soil. It enters the or- Whatever the storm overtakes upon the open ganism of plants by the delicate, hair-like fibres plain, man or beast, caravans drawn by oxen, or of the roots, in accordance with the common caravans drawn by horses, is lost without a res-

the terrible blast; it falls so thick, and drives so Take a short tube, and, having covered one end horizontally through the air, that to withstand it with a piece of thin bladder, partly fill it with a is impossible, whilst it avails little to suffer one's strong solution of gum and sugar. Mark the self to be driven before it. For if one escapes height of the fluid in the tube, and place it in a for a while this prelude to the hurricane, he is incommon tumbler filled with water. In an hour fallibly overtaken by the formidable blasts and or so, the gum and sugar will be found to have circling whirlwinds which succeed it, and which risen considerably above the mark made on the gather up from the earth, like chaff from the exterior surface of the tube, which proves that threshing floor, the objects exposed to their viothe denser fluid has drawn the water through the lience, and hurl them to and fro in the air. And membrane into the tube. This species of absorp- yet the rage of the unfettered element is not here tion was discovered by M. Dutrochet, a distin- at its height; for when the storm seems to have guished French Physiologist, and was called by exhausted its fury in the mauner I have described him endosmosis (Greek endon, inwards, and mao, -often raging thus during a period of several days-then first begins the real tempest, a blast Now, the interior of plants, owing to the evap- which nothing can resist. It uproots whole fororation of the superfluous water from their leaves, ests, tosses the loftiest fir-trees into the air like

A TOUGH WITNESS .- Prosecuting Attorney-"Mr. Parks, state if you please, whether you have ever known the defendant to follow any profession."

"He's been a professor ever since I've known him."

"Professor of what?"

"Of religion."

"You don't understand me, Mr. Parks .- What does he do?"

"Generally, what he pleases."

"Tell the jury, Mr. Parks, what the defendant follows."

"Gentlemen of the jury, the defendant follows the crowd when they go in to drink."

"Mr. Parks, this kind of prevarication will not do here. Now state how this defendant supports himself."

"I saw him last night support himself against a lamp post."

"May it please your honor, this witness has shown a disposition to trifle with the Court."

Judge-"Mr. Parks, state, if you know any thing about it, what the defendant's occupation

"Occupation. did you say?"

Counsel-"Yes, what is his occupation ?"

"If I ain't mistaken, he occupies a garret somewhere in town."

"That's all Mr. Parks."

"Cross-examined-"Mr. Parks, I understood you to say that the defendant is a professor of religion. Does his practice correspond with his profession?"

"I never heard of any correspondence or letters passing between them."

"You said something about his propensity for drinking. Does he drink hard?"

"No, I think he drinks as easy as any man I ever saw."

prizes to Cap'. Kellett, as well as to Capt. Collin- attracted into the tube by the thick, gummy, and of dead cattle, trees uprooted, willages over-"One more question, Mr. Parks. You have son, for the services which they also rendered. sugary liquid which it contains. nown the defendant a long time; what are his thrown. The committee closes its report by saying that The absorption of food into the organism is in In exposed situations, this wind has been known habits-loose or otherwise?" "whatever may have been the extent of services principle precisely the same in animals as in to tear up isolated stables, to transport through "The one he's got on now, I think, is rather rendered by others, it may litterally be said that it plants, with this difference, that there is super- the air their fragments and the cattle they contight under the arms, and too short waisted for was the spirit of Sir John Franklin which pointed added to the organism a highly complicated, ner- tained, and far, far from the spot, hurl these down the fashion." out the way. It never can be forgetten that it vo-muscular apparatus for its prekension and pre- shattered upon fields and roofs. With varying "You can take your seat, Mr. Parks." was in the attempt to trace his steps that the path paration. The food of animals, like that of fury the monster rages for some days, leaving of McClure was successfully pursued, and only plants, is not presented to them by nature in an behind him, on his departure, death. destruction IF Be thrifty to yourself that you may be because men worthy to be his followers went already prepared state; but it comes into contact and lamentations. Happily he comes but seldom; liberal towards others.