68

The Farmer's Song. I digs, I hoes, I plows, I mows, I gets up wood for winter, I reaps, I sows, I taters grows, And for all I knows Pm 'debted to the printer.

I do suppose all knowledge flows . Right from the printing preas; So off I goes, in these 'ere clo's, And settles up-I guess.

I told you so. Old Hodges was ever annoyed with the din Of "I told you so dear-I knew it would be ;" Till his patience at length becoming quite thin, He resolved upon taking a regular spree.

His spree being o'er at the end of the week, He turned himself homeward, disgusted with life, The tears in big drops coursing down his wan check, As he thought of his home and his termagant wife.

On reaching his house he sat himself down ; "Old woman," said he, "I am going to die: I swallowed a millstone as I came up from town ;"

"I told you so, husband," was her only reply

Grammatical Tautology. I'll prove the word that Five made my thene, Is that that may be doubled without blame; And that that *that*, thus trebled I may use, And that that *that* that evities may abuse May be correct. Farther—the dons to bother— Five *bids* may closely follow one another! For be it known that we may safely write Or say, that that *that* that man writ was right Nay, e'en that *that that that that flat followed* Thro's six repeats. the grammar rule has hallow'd; And that that that (that that that that begun) Repeated seven times is right -- Denv? (who can.

A CONNECTICUT STORY.

The following is related as a fact, having actually happened, some years since, in the state of Connecticut.

A man in rather indifferent circumstances, surrounded by a large family, being entirely out of meat, had recourse to the sheep fold of his neighbor, having a large flock of sheep, full batterior diameter of exterior ring, not perceive that he had lost any, until one of Interior do do the finest of the flock, very large and fat, was Breadth of do missing—and counting his sheep, found he had Exterior diameter of interior ring lost several. Unable to account for this extraordinary loss, he resolved a few nights, after to watch. About uidnight he observed an un-common disturbance among the sheep, caused interval between the planet and the interior by the sudden appearance of a man dressed in ring, disguise. Curiosity, as well as to observe the conduct of the person, so as to find him out, in-duced him to lie still. In the flock there was a says the nocturnal sheep-stealer, "I am come to buy another sheep, have you any more to sell?" Upon which he replied as in person of sell?" Upon which he replied as in person of the ram: "Yes, I have sheep to sell." By this time the owner had discovered him to be one of The disc of Saturn appears striped with dark and bright belts, running parallel with its equator... Inroo fat weber?'' says the purchasor. "Four dollars," replied Mr. Ram. "That is a very high price," says the man," but as you are so good as to wait for the pay, I think I will take similar cause to that operating upon Jupiter, bein him." "Well, Mr. Ram, continued the honest the results of the great atmospheric currents, aris sheep buyer "let us see how many sheep I have ing from the difference of temperature in different bought of you." If I am not mistaken," says latitudes, and greatly modified in their direction the ram, " this makes the fifth," and then went on to cast up the amount of the whole, and on its axis. of the cast up the initiation to call on giving Mr. Rum a polite invitation to call on him for his pay, and bidding him good night, while the owner hay laughing at the novelty of minutes, and 17 seconds. The ring revolves around minutes, and 17 seconds. The ring revolves around the scene, as highly gratified as if he had re-

a piece of paper between his horns, on which same period, has not been determined by observa-he wrote in large letters, "I have come for my tion, but it is extremely probable from certain me-money." Under this line he footed up the chanical considerations, founded on the laws of whole amount of the five sheep, exactly as his force and distance, that there must be a difference neighbor had done, as before rolated; he then in their periods in order that the system may be took the ram to his neighbor's house, where he maintained in a similar state of equilibrium. tied him near the door, and then went home. When the neighbor arose in the morning, he was not a little suprised to find a sheep tied at his own door; but it is beyond words to express his astonishment when he found it was the old ram with whom he had lately been douling so actly the same period that the ring now revolves. much in mutton, with his errand on his foremuch in mutton, with his errand on his fore-head, and the amount of five sheep actually made out, as he had done a few nights before the exterior ring at a distance of 2253 miles from its in the prime and the ram. in the person of the ram. Suffice it to say, he interior edge, or 2235 miles from its exterior edge obtained the money, and after tying it up The centrifugal force of a satellite in the exterio nicely in the little bag, and tearing the paper ring would be just equal to the centripetal force to from his horns set the ram at liberty, who im-

owner.

LECTURES ON ASTRONOMY. BY PROF. ORSON PRATT.

LECTURE TENTH

Saturn. Of all the grand objects of the solar system, Sat-

have no connection or contact with each other-Let it be understood, that these rings do not encir-ele the planet in the form of a broad belt or zone, extending several thrusiand miles each side of the equator, but they encircle that globe in the plane of its equator with their edges directed towards its centre. The dimensions of this extraordinary ap-pendage, as calculated from Puressor Straue's mil-crometric measures, are as follow:

do do

ings is incomparably smaller than their breadth .--From recent observations it is believed, that the ted by four, and, as some observers declare, by six divisions. If these observations can be depended upon, then there must be five, and perhaps seven, By this tween each ring must be exceedingly narrow.

The disc of Saturn appears striped with dark and

The axis of rotation is perpendicular to the plane the planet in its own plane in the period of 10 ceived ample pay for the whole. A few nights afterward, when he supposed his neighbor was nearly out of mutton, he caught the old ram and tied a little bag under his neck, and placed ence. Whether the several rings revolve in the

It may be enquired, how the rings are prevented from breaking up, and falling down upon the sur-face of the planet? The answer to this is the great centrifugal force of rotation. If a moon were placed at the distance of 70,924 miles from the centre of Saturn, it would revolve around the planet in exhis errand-to the no small gratfication of the situated at the same distance from the planet, the

vertical plane, it will have no tendency to restore | us, will be invisible. This also can never happen

urn is truly the most wonderful. This magniticent its centre of gravity This is an equilibrium of start of barks shade, and crossed equationary by a hardword of consecutive of the dark invisible ring of course would be nicd by eight moons, performs a revolution around rinm, are not permanent; neither do they go on in-the sun at the mean distance of 906,000,000 of miles creasing, but are counteracted by the constant ten-in 10759 1-4 of our days, or in about 20 1.9 years. dency to return to the primitive condition of equi-tionary and perfectly black line. This of course would be the projection of the dark invisible ring upon the bright disc. The ring of Saturn will always be visible, in eve-try part of its orbit, except in a space of about 6deg.

When nearest the earth, it is 811,000,000 of miles distant, an interval which could not be traveraed by a cannon ball, flying with a velocity of 500 miles an hour, in less than about 184 years. The circum-ference of its orbit is 5,605,000,000 of miles; a dis-tance so great, that a steam carriage, moving at the rate of 20 miles an hour, would require above 32,-500 years to complete the journey. Saturn rolls in silent grandeur around this whole circuit at an av-erage rate of 22,000 miles every hour.

trate of 20 miles an hour, would require above 32,-500 years to complete the journey. Saturn rolls in single as Jupiter, being 70,000 miles every hour.
Saturn is nearly as large as Jupiter, being 70,000 miles distant from the surface of the planet, and concentric with be planet and with these three conditions, the system is nearly have no connection or contact with each other--would, with the slightest derangement, specially destroy its for a surger at a state of stability, three the service around the centre of the planet. The interval between the planet. The interval between the interior ring, or its breadth, is over 10,000 miles. The thickness of the service atter of the planet, and exterior rings of the exterior ring, or contact with each other--would, with the slightest derangement, specially destroy the state of the service around the service around the service around the centre of the planet. The interval between the planet. The interval between the planet, and it is further observed that the centre of the sterior rings of the exterior rings or the breakers of the service around the served with the service around the centre of the served with each other---would with the slightest derangement, specially denotes and with the service around the centre of the service around the served that the centre of the service around the served that the centre of the service around the served that the centre of the service around the centre of the service around the centre of the server with each other---would with the slightest derangement, specially denotes around the service around the centre of the service around the server of the service around the server of the server of the service around the service around the server of the service around the server of the

crometric measures, are as follow

Interior

Thickness of the rings not exceeding

It will be perceived that the thickness of the

would all have the same period, and consequently would be under the same influence of the same two

itself to its original position, or to increase its devi-ation, but will remain entirely indifferent to any change. If this rod be suspended like a pendulum, and be made to deviate from the vertical, it imme-aspect of the planet would be very singular, appear-

diately seeks to return again to its original position, ing like a bright round disc, striped with belts of a as is "manifested by its oscillations on each side of darkish shade, and crossed equatorially by a narrow

and y appendix and y appendix a state of the sta

151,640 within a spherical shell of matter whose interior of the wall that will be hid will be an ellipse whose 117,339 surface was at the same distance as the interior effect greater diameter will be double the shorter. If the 75 of the ring, in all positions that it might be placed angle of the inclination of the ring be less, the in-79.160 within the same, it would be in a state of equilib. nor axis of the ellipse will be less; and this axis will

the planet were placed in contact with the inner It will appear, like a vast arch of light, extending the planet were placed in contact with the inner it will appear, like a wast aren of light, extending edge of the ring, they would not adhere togeth from the eastern to the western horizon. The er with the least force; for the tendency to the op-posite part of the ring would be exactly equal to its tendency to that part with which it might be placed in contact. Therefore, the mutual gravitation ex-will appear to them to route from east to west once of the planet and ring which the ring which the ince every will appear to them to route from east to west once ened between a planet and any number of circular in about 246 of their days; during which time every rings with which it may be enclosed, (if of equal part of the enlightened side of the ring will succes-thickness and density at equal distances) can never sively pass their meridian. after in the least degree their relative positions, whether their centres coincide or not. This, there-fore, is an equilibrium of indifference, so far as their mutual gravitations are concerned.

Let it be distinctly understood, that this equilib- by the interposition of the ring between them and

rium has reference to the ring as a whole, and not in regard to its different parts. Every part of the ring gravitates towards the planet, and if each of these parts were detached or loose, they would fall distant has its orbit inclined to the plane of the

to it, unless prevented by the centrifugal force of ring 12deg. 14m., which is nearly one half of the ring the assumption that the matter composing the ring and that of its orbit. All the rest of the satellites was solid, and adhering to the ring with a cohesive move in or nearly in the plane of the ring. To force greater than its gravity towards Saturn. In these satellites the following names have been givcase, it is evident that they could not be af- en, beginning with the nearest to the planet and such but the affections of the whole ring are equal and Minnas, Encludus, Tethys, Dinne, Rhea, Titan, but the affections of the whole ring are equal and whinas, Enceladus, Tetnys, Dinne, Anea, Tethy, opposite; therefore, the whole cohesive ring will. Hyperion, and Japetas. The discovery of Hyperi-maintain its relative position to the planet while the on is quite recent, having been made nu the night loose parts will, if not prevented by centrifugal of the 19th of September, 1848, by two differents force, be precipitated or fall towards the surface of discoverers far separated from each other, namely, the planet. Mr. Lassell, of Liverpool, and Prof. Bond, of Cam-

he planel. Although the equilibrium of indifference, which Although the equilibrium of indifference, which The nearest, or Alimas, revolves in an orbit only The nearest, or Alimas, revolves in an orbit only we have now explained, could not be deranged by the mutual gravitations of the cohesive ring and planet, yet their relative positions might and would 5228 miles above the outer ring, or 93,437 miles rom the planet's surface; its period is 22h. 37m. be deranged by the unequal action of the satellites upon the rings and planet which would in a short 22.0 ime bring them into immediate contact, were it the planet, and revolves around it in 1d. 8h. 53m. not for the three principles of stable equilibrium to which we have previously referred. How wonder-The distance from the surface of the planet to Tethys is 171,761 miles; its period is 1d. 21h. 18m. ful are these adjustments! What wisdom is displayed in this grand, though anomalous system! val between the rings does not exceed 1800 miles, how exquisite must be the adjustments to prevent them from collansing! Neither of the nice of the ni

them from collapsing! Neither of the rings or plan-et, if of equal thickness and density, would alter Titan is 836.9 heir relative positions by their own inutual gravitations; but one ring, in the course of a very short 25.2s, time, might be precipitated upon the other by the Hy

of some external fo

device the other a pare bar. Said over some wind in the first of the the initial of the brethen, he there-ed with J H on each horn. Any person giving in-formation to Andrew Henry, of the 14th Ward, where said oven can be found, will be liberally re-tory. All that he makes he intends to spend with warded mar20-10tf

CALVES.

We will take the Calves and deliver the Hay and Wood at the owners' dwelling.

mar20-10-2t WM. S. MUIR. ESTRAY.

ap17-12:f

CONSTANT SUPPLY of Matches of supe A rior quality kept on hand, for which produce vill be taken in exchange by A. NEIBAUR

100 BUSHELS HAIR wanted immediately performed by him. why is the Public Works. The brethren who why why are killing their hogs will confer a favor by saving DATRONIZE H all the hair and bristles and bring the same to the Public Works for which they will be allowed a fair fich7-7tf D. H. WELLS, Supt. P. W.

SUMMER IS COMING!

BRING on your Leghorn, Panama, and Straw Hats, if you wish to have them bleached and Enceladus is 131,100 miles from the surface of pressed in a superior manner, to Altred A. Smith's, in the 14th Ward.

For further particulars enquire of Z. PULSIPHER, N. B .- Tithing, and Church Store orders taken Seb7-7ti pay.

STRAYED, FROM the subscriber, on the 29th March, a THE THIRD TERM of the Parent School of Deseret University commenced on Monday, oct. 27, in the 13th Ward School Hunse, where an right side of her neck about 7 inches in diameter, with a red spot in the centre about 3 inches in diopportunity now offers for persons to qualify them. selves for teachers in common schools, or, for im-provement in the educational branches which render

ameter; also a white spot in her face. Titan is 836,918 miles from the surface of the Any information respecting this cow will be most planet, and revolves around it in 15d. 22b. 41m. gratefully received by MRS. SAMUEL W. RICHARDS, MRS. SAMUEL W. RICHARDS, the duties of life pleasing. The terms are, for the common branches, \$5 00, one half in advance.

Hyperion is 1,063,669 miles from the planet, and ap17-12ff 14th Word.

S. HOTCHKISS, M. D., ENTIST, Residence west side of 14th ward, opposite sheriff Ferguson's. nov15-114 order, at my shop on west Temple street, next

TURNING,

NOTICE.

old wronght and cast iron we can, for which we

will pay a liberal price, either in nails, or apply the same on Tithing.

NOTICE.

INOTICE. I WOULD just say to all indebted to the firm of J. & E. Reese prior to the arrival of their last train of goods, that they are requested to call and settle their accounts immediately, either by note or otherwise. We will in payment of such debts, take Wheat, Flour, Stock, or Lumber at fair rates. By situating the target allows are many

By attending promptly to the above, you may probably save a little time and expense.

MRS. D. E. ARMSTRONG.

TO THE CITIZENS OF DESERET.

greatest care, and are the most suitable for this

his people, and in building up this Territory.

STRAYS.

round his nose, and white stripe under his belly.

take them away. Near head of East Temple st.

Also, one Red Stag, four or five years old, with

some white under his belly, NO BRANDS. The owncris requested to prove property, pay charges, and take them away. GEO. ALLEN,

A. NEIBAUR,

SURGEON DENTIST, grateful to his patrons of and friends for the last eleven years' favors, solicits a continuance of their kindness, and the patronage of the citizens of the valleys of Ephraim

in general. His charges are strictly underate, and satisfaction is warranted to be given in all operations

WHY DON'T YOU PATRONIZE Home Manufacture? We have just received from Utah Valley 150 Wood Bread Bowls of all sizes: also Butter Ladles,

Washtubs, &c., for sale low by feh20-8tf J. & E. REESE.

WANTED.

PARENT SCHOOL.

MAN acquainted with the manufacture of

16th Ward, G. S. L. City.

Counts, who has necessary tools for operation.

The subscriber wishes to inform his friends that

T. S. WILLIAMS.

nov15-1f

JAMES BIRD.

BURR FROST & CO.

J. & E. REESE.

jan24-611

nov15-ltf

feb7-71f

ap17-12tf

market.

door south of Judge Rhoads' dwelling ; also Cabinet ware made to order. The patronage of the public LOOK TO PUBLIC GOOD !! H. PECK, Blacksmith, 17th Ward, hereby will be thankfully received..

M. H. PECK, Blacksmin, refut to him for Blacksmithing, &c., to call and settle forthwith; which may be done through the Tithing Office, or ders on the Church Store, Lumber, or Country WE WISH to inform the citizens of Utah gen erally, that we are going into the business of manufacturing nails, and wish to purchase all the Produce

All kinds of Blacksmithing, Horse shoeing, &c., done as usual on reasonable terms, for pay as above. Cash not refused. mar20-10tf

NOTICE.

S TRAYED-From this place in October last, a S large Grey California Horse, the property of Heber C. Kimball. The same may be known by

the following _____ brand marks on his nigh hip, and nigh shoulder; stands about fifteen hands high; very full below the eye; marked on his back by hurt from saddle. Any one finding the above nam ed Horse and giving information to the owner shall be amply rewarded. feb21.8-1f

NOTICE. THE Proprietors of the Big Field west of Jor-dan river have ordered, that the fence thereof be put in good order by the first day of May next. MILLINER, Dress Maker, and Straw Bonnet Maker, respectfully solicits the patronage of the ladies of this city and vicinity; hoping by strict attention to business, to give that satisfaction which Therefore all persons interested, will please to the will endeavor to merit. ake due notice and govern themselves accordingly Ladies' own materials made up on the shortest no-As the Committee, accompanied by a fence-viewer of the county, will examine and approve or condemn said fence; if condemned, the committee tice Residence 15th Ward, opposite the N. W. corner of the Old Fort. are authorized to cause it to be put in lawful condition at the expense of the owners as prescribed by THE undersigned wishes to inform the inhabit-ants of this Territory, that his splendid stock of goods have arrived, and are now ready for inspec-

Per order of the committee apr3-11tf A. P. ROCKWOOD, Clerk.

tion at his new store, where he invites all his friends THE COTTONWOOD CANAL to come and examine. The stock consists of Tea, Coffee, Sugar Salara-S SURVEYED and ready for the laborer; and unless completed soon, much land must go withtus, Raisins, Currants, Figs, Candies, Nutmegs, Spices, Ohve Oil, Lemon Syrup, Piekles, Mustard, out irrigation this season. Those owning land in the vicinity, and wanting water, can have the chance Pepper, Salt, Crockeryware, Hardware, Stationery, Domestics, Shirtings, Printed Calicoos, De Laines, of making the whole, if they choose. I am ready to pay liberal wages for the completion of the o pay liberal wages for the completion of the water, whole or any part thereof, in the use of the water, brode or any part thereof, in the use of the water, ficials, Gloves, Stockings, Pins, Needles, Kersey-meres, Jeans, together with every variety which or orders on the Treasury, -- which will be some of the best property in the Perritory. Now is the are suitable for this country. This stock of goods has been scleeted with the time; come on; first come, first served. IRA ELDREDGE,

79,160within the same, it would be in a state of equilib-
rium, haviog no tendency to move in one direction
19,090nor axis of the ellipse will be less; and this axis will
decrease its length as the inclination decreases, un-
til finally the ellipse will coalesce into a straight
iner state of a thin ring,
soft he mutual gravity exerted between the planet and each
part of the ring would be exactly equal in every
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the planet with in this ring whether their
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the FROM the west side of Jordan, a yoke of oxen, it is his intention to extend his business as fast as he can make arrangements, to every settlement in this-Territory, to accommodate the brethren; he there-

ANDREW HENRY.

His goods are marked in plain figures, and but one price is known in his establishment. 100 CALVES Wanted, for which we will hay-the Calves to be nine or twelve weeks old. N. B. Butter, Eggs, Cheese, Beef Cattle, and Furs, taken in exchange for goods. nov 15-1-tf

ISRAEL BARLOW, CAME into the subscriber's enclosure, has fall, one Red Stag, five or six years old, small crumpled horns, with some white in his face, white

TOVEMBER last, from Dr. Richards' Pasture, one RED OX, six years old, horns bend in at the top, an oblong wart forward of the hip bone, nigh side Whosever will return said ox to New-

Bullen, shall be suitably rewarded. ap17-12:f SILAS P. BARNES. MATCHES

nov15-tf Residence in 18th ward. HAIR! HAIR!!

unable to get any other answer from him, the Justice ordered him to be locked up till the next day, when John was brought before him perfectly sober, "Why. John," said the Justice. you were drunk as a beast vesterday. When asked you questions, the only answer you made was, "Your honor is wise vory wise-very wise." "Did I call your honor wise?" said the Juhn, "I must have been drunk sure enough !! !!!!?-Ned Clipper.

RECEIPT FOR DVING BLUE .--- Take one pound of pounded log-wood, boil it in a sufficient quantity of water until the substance is out of it, then take about a half a gailon of the liquor and dissolve one ounce of verdigvis, and half gallon that contains the verdigris and alum. then put your yarn into the mixture, and boil

an elegant deep blue. After which, put in as much yarn into the same liquor, and boil it three hours, stirring as before, and you will bave good pale blue, or boil hickory bark in your liquor, and you will have a beautiful Rest assured there is no imposition in the those. It is cheap. Any person following the recipe will find it proves satisfactory .--

[Southern Cultivator. "Boy, you are not far from a fool." "Well, as we ain't more than three feet apart, I give in to

that," was the reply. The directors of the New Grenada company, London, have, it appears, entered into a contract or agreement for the purchase of a freehold property in agreement for the purchase of a freehold property in the province of Choco, upwards of seventy miles in length, and varying from twenty to sixty miles in width, comprising an area of more than 1,500,600 acres, upon which many surface mines have already been discovered, not of gold only, but also of silver, platina, ciunabar, and other products.

The Roman government have sanctioned the oduction of postage stamps for the pre-payment The stamp is about the size of postage on letters. of the English postage stamp; and on it is a represent-ation of the tiara and keys, the badge of papal dignity and power.

Look at the recent passage of the Game Cock from the Sandwich Islands to Hong Kong, at the av-erage daily speed of two hundred and sixty-one miles for thirteen consecutive days, and three hundred and rom the Sandwich Islands to Hong Rolg, at the average daily speed of two hundred and sixty-one miles for thirteen consecutive days, and three hundred and twenty-eight miles for twenty-four hours. Third, when the sun and earth are on the oppo-twenty-eight miles for twenty-four hours. Third, when the sun and earth are on the oppo-ity upon an axle, if it be turacd in any position in a site sides of the ring, the dark side heing towards people able to take care of themselves?—{Exchange.

INDIAN ANECDOTE .- John Sequashequash, an antagonist forces, and would continue to revolve at Indian of the remains of a tribe in N. Y., the sime distance. Now, if instead of a hundred. was, some years since, brought before a Jus- moons, we suppose a ring of moons joined side by tice of the Peace on some charge or other, side, encircling the planet at the same distance from John happened to be drunk at the time, its centre; such a ring of moons would have no more and instead of answering directly to the tendency to collapse of fall towards the planet, than question put by the Justic, merely muttered out: 'Your honor is very wise-very wise-y-y-y-your honor is very wise, I say.'' Being this ring, instead of heing spherical, should be flat-tened out so as to form a ring similar in every re-unable to get any other answer from him, Saturn, such a ring would revolve in the same pe riod and at the same distance as one moon, and would have no disposition to fall towards Saturn, though it were broken into any number of frag

ments The interior ring, if it had the same period of rotation as the exterior, would have a tendency to fall towards the planet; for with the same period the answered the Magistrate. "Then" replied To prevent this tendency to fall, the rotation of the interior ring must have its velocity increased in the

the interior ring is 67,257 miles from the centre, while the distance of the point in the exterior ring at which a satellite would revolve in the same tim as the ring, is 79 924 miles. The square root of the first number is 26); the square root of the second is an ounce of alum in it, boil your yarn in the 233; therefore a point on the middle of the breadth log wood water one hoar, stirring it and keep- of the interior riog would more 283 miles, while ing it loose. Take out your yarn, mix the half the point in the exterior ring moved 260 miles. The actual velocity of the nearest point would be 14.326 miles per second; while the actual velocity it four hours, stirring and keeping it loose all of the other point would be 13.233 miles per secthe time, and taking it out every hour to give and. If the exterior ring revolves in 10h 32m 15s. it air, after which dry it, then boil it in soap the inferiorring should revolve in Sh 11m 37s nearly and water, and it is done. With these velocities, neither of the

ad water, and it is dono. The above will dyc six pounds of cotton yarn a elegant deep blue. After which, put in as The quantity of matter towards which the outer The quantity of matter towards which the outer ring gravitates is a triffe greater than the quantity towards which the inner one gravitates; therefore, for this reason, the inner ring must move a very small degree slower than it otherwise would. I have made the necessary allowance in the forego-ing calculations, though I have omitted the innute ing calculations, though I have omitted the minute Saturn's rings are not always visible in conse-quence of their relative positions in regard to the

fractions.

Although the great centrifugal force of rotation sum and earth. There are three causes for their is calculated to preserve the rings from contracting disappearance. until they finally coalesce with the surface of the First, when the sun is vertical to the edge of the

until they infinity controles while as under of the planet, providing that the centres of gravity of the ring, the edge will be the only illuminated part; the sides of the ring, the edge will be the only illuminated part; the sides of the ring, the edge will be the only illuminated part; the sides of the ring, the edge will be the only illuminated part; the would break likely as not. some time or other, and I some time or other, a in contact with its surface. An equilibrium of in-stability is the name given to this kind of mechan-appear as a very narrow straight line of light, proical conditions, it may be exemplified by balancing jecting on either side of the planet as a prolonga-a red upon the tip of the finger. While the rod tion of its diameter."

must b

stands in an exact vertical position, it maintains it-Second, when the edge of the ring is presented self in a state of equilibrium, and has no tendency to the earth, though one of its sides may be obliqueto fall, but this equilibrium is unstable; for the slight- ly enlightened, yet it will be invisible because of est deviation from the vertical will constantly be increased until the rod falls, and the equilibrium is destroyed.

There is another species of equilibrium that may grees 1 min. of either node,-or only once in 15

ited revolves around it in 22d: 12h. ree unless pres the three conditions which we have already spe-Japetus is 2,507,749 miles from the planet's sur-

fied as necessary to their stability. The velocity of the rotation of the rings is much. face, and revolves around it in 79d. 7h. 53m. 40.4s. The first four satellites are nearer to Saturn than greater than their orbitual velocity around the sun. the moon is to our earth; and if we suppose them to The circumference of the exterior edge of the outer be as large as our moon, the apparent disc of the ring is over 554,000 miles; it must revolve, there- first will be about S times larger than that of our e, over 52,000 miles every hour; while the velo- moon's: that of the second, 4 times larger; that of while that point of the ring nearest the sun, will be new to full and from full to new moon in about

while that point of the ring hearest the sun, will be new to full and from this to new inom in mode in any interval of a strong in the sun assolute velocity of 30,000 miles three Saturaian days. The third will pass through per hour to the west. From their noon till their all the same aspects in a little over four of Shturn's days; and the fourth will undergo the same changes. The same changes the same set of th an average change of absolute velocity of in a little over 6 of Saturn's days. The four most

about 20,000 miles per hour. The inclination of the orbit of Saturn to the plane of the celiptic is equal to 2deg. 2Dn. 35.7s. The its phases during the period of its revolution.

inverse proportion of the square roots of the distan-its orbit is equal to 28deg. that . The plane of the New moons, half moons, full moons, rings, all rering in the year 1852 intersects the plane of the volving-all changing-all exhibiting the handy ecliptic in two points, namely, 167 deg. 33ar. 14.9s. work-the wisdom, and glory of the great Architect and 347 deg. 33m. 14.9s. of longitude. The nodes of nature who erected this superb and magnificent of the ring are not quite stationary, but advance system! on the ecliptic about 46 462s. per annum.

The venicity of seasons upon Saturn and his rings will be somewhat m restriking than wilk sub can see An acquaintance of ours was up in Connecticut the inclination of his equator to his orbit is greater one day last winter, to visit a friend who was a manu than ours. Summer, winter, spring, and autumn, facturer. The shaft of the manufacturer's water will each be about 7 1.2 years long. Every 15 of wheel had been broken that afternoon, under the while ach be about 1.12 years long. Every 15 of wheel had been broken that alternoon, under the our years the sun will apparently pass through the great accumulation of ice, and he was in great trouble, equinoxes of Saturn, at which time it will be vertished in the searched long to find a suitable stick, and he cal to the outer edge of the ring. The sun will ap-parently recede to the south side of the rings as far as the southern tropic or about 30 deg, south, and then return back again, crossing the equator or plane of the ring, and continue 30 deg, north or to the manufacturer and his guest were at the mult, to plane of the ring. The sun will apply the the day had searcely dawned, the manufacturer and his guest were at the mult, to plane of the ring, and continue 30 deg, north or to the searcher the work the sum of the sum of the searcher the searc

vould be about right.

Intire, 16th Ward; on the 6th of April, at 4 o'clock, p.m., and at the same place on the first Siturday of each month ensuing, or report themselves to the G. S. L. City, Novlöif W. W. PRELTS, Reg. Presidents by letter or otherwise

ISAAC ALLRED, apr3-11-tf President.

BARBER SHOP & EATING HOUSE.

(Hot Meals at all Hours.) (Hot Meals at all Hours.) (Hot Meals at all Hours.) (Lot Meals at Hours.) (Lot Meals patrons in the best possible manner, with every variety of refreshments the Valley can afford.

N. B. Public h: n is can be accommodated, and orders taken for pay. WM. HENNEFER

jan24-6tf COODS! GOODS!! GOODS!!!

Enormous Sacrifice! JOHN NEEDHAM, wishes respectfully to in-form the citizens of Descret, that in conse-quence of having to meet linbilities in the east this spring, by the first train, he is now offering for easi

IN HAND, the GREATEST BARGAINS

This side of the mountains. His stock is well selected, consisting of Staple. Dry, and Fancy Goods, which will be sold at such ices as will warrant a ready sale.

Those wishing to purchase, will do well to call before putchasing else where. Stare, 8th Ward,-3d house south of D. Spen-

mar20-10tf

HOME MANUFACTURE.

I RA AMES would respectfully invite the atten-tion of the citizens of Deseret to the all importpoinfully at his catastrophe: "Bad break that, Mis-ter." said the farmer. "Yes, very bad," said the manufacturer. "Can't mend that stick, can you?" said the farmer. "No," said the manufacturer, "and the worst of it is, I don't know where to get another." "Well." said the farmer. got dry hides nailed up on their stables, or else-"You can?" said the manufacturer, "where is it?" where, please to fetch them to me forthwith; I am

"You're just the man I wanted to see," said the and bring forward their hides, and they shall receive "You're just the man I wanted to see," said the manufacturer, "if it was only light enough. How much do you ask for the shek, if it will suit me ?" "Oh, I'm sure 'twill suit ye, or I shouldn't a' cut it down; and about the price. I guess you and I can agree. It's a nice stick, you'll see, if you've a mind to come over." It was hofere the former would at a lite forward their ludes and they shall receive according to their works; also the settlements north; and in so doing, we shall be able to build up and bear off the kingdom of God. NOTICE. TH QUORUM of Seventies.—The members of the Floward the Seventies and Seventies are

to come over." It was some time before the farmer would set a price, but at last he guessed one hundred dollars hereby notified, that they are requested to report themselves to the Clerk of said Quorum, together "I'll come over and see it after breakfast," said the manufacturer. He did so, and told his visitor afterwards, that under the circumstances, the stick and by whom ordained into this Quorum. I have a stick and by whom ordained into this Quorum. J. P. HARMON, Sen. Prest.

my15-14tf

THE Presidents and Members of the 4th Quo-rum will meet at the house of Wm. P. Me-rum will meet at the house of Wm. P. Me-early attention will secure a privilege for thuse who may wish to improve in knowledge.

Professor Pratt baying been engaged to assist in

BY ORDER

OF THE Surveyor General, H. G. Sherwood, I have connected all of the surveys in Utah Valley; and am now ready to settle and give certificates f the same. N. B. The Surveyor General wishes all the Re-

Provo City, jan24-6tf County Surveyor. WANTED-All kinds of fruit trees, shrubbery and plants. Also, fruit seeds of all kinds locust, thorn, chestnut, and all other kinds of seeds that will produce fruit, or please the eye. ja 10-5tf CHAS. WHITE.

GENUINE SUGAR BEET SEED. WE have 200 lbs of superior Sugar Beet seed, raised in this Valley last season; warranted to be the Sugar Beet, for sale by J. & E. REESE.

LAT. 40° 45' 44" LON. 111° 26' 34" DESERET NEWS, Published every other Saturday, at five dollars per annun, payable INVARIABLY in advance. Single copy, 25 cents. Papers delivered at the post office, which will be open each Sabbath, from 12, to I o'clock, p. m. TERMS OF ADVERTISING. For a square of 10 lines or less, 1st insertion, \$ 1.50 Each subsequent insertion, FOUND AND LOST. Found and lost articks from I to 3 lines, inserted once, -25 ets. AGENTS. City Bishops for their respective wards. North Weber-LEWIS HARDY. Ogden City & Brownsville-ISAAC CLARK, Ogden's Hole-LEMUEL MALORY. Sector State - LEWIEL MALORY. Kay's Ward - Wm. KAY. North Cottonwood - LYMAN HINMAN. Cherry Settlement - A. B. CHERNY. Sessions' Settlement - JOHN STOKER. Tooele Valley-Jons Rowbenny. South Cottonwood-J. C Whight. Big Cottonwood-EZERTEL LEE. Little Cottonwood-Sil. As RICHARDS. Mill Creek-REUBEN MILLER. West Jordan-Joseph HARKER. Evansville, Utah Valley-BISHOP EVANS. American Fork-Bishop L. E. HARNINGTON. Battle Creek and Pleasant Grove-G. S. CLARE, Provo City-ISAAC HIGBEE. Springville and Spanish Fork-AARON JOHNSON, Payson-JAMES PACE. Summitereek-B. F. JOHNSON. Salt Creek-T. B. FOOTE. Manti City, San Pete Co.—NELSON HIGGINS. Fillmore City, Millard Co.—ANSON CALL. Parowan City, Iron Co.—JAMES LEWIS. Coal Creek—HENRY LUNT.

Santa Clara and Rio Virgin JOHN D. L

Settlements, Los Angelos.-WM. CROSSY.

"Well," said the farmer "I guess I can tell you and silver will be refused. Also thos where you can find one."