EDITORIALS.

AMBER CANE.

TESTIMONIES to the superiority of kind for this mountain region. Mr. others in a malignant form.

according to the Prairie Farmer, and yield to it. Early Amber sown June 20th was The origin of zymotic diseases is But will lit be contended that subject only to certain specified reworked up early in September, and yet an open question, but the germ | there can legally be only one class | strictions. The election laws have cane seed in Utah even in the low- ists. If the causes of those fatal in the United States except Indians alluded to in those powers or reshould be exercised in regard to discovered, and the axe of science one years of age; these may vote reasonable when properly apthe time of planting, the altitude laid at the root of the plants of under such qualifications as the plied, but are unjust and absurd and nature of the soil being taken | death. into fair consideration.

There should not be a pound of syrup imported into Utah. We can make just as good syrup here as can be manufactured in any part of the country, and the time is not far distant when it will be demonstrated that sugar-making can be carried on with profit and success in this Territory. study of the rights, privileges and First, however, let the best kind of

cane be grown.

DIPHTHERIA.

THERE have been almost as many theories advanced about the origin of that terribly fatal disease, diphtheria, as remedies offered for ito "certain cure." The following, be generally understood. which was furnished to the Boston Journal of Chemistry by Dr. Emil Querner, an expert of Philadelphia, was the result of patient and critical researches, and as it serves to show the danger of eating fruit uncleansed from the "bloom" and spots and accumulations on the exterior, we clip it for the careful consideration of our readers:

"After a laborious and scrutinizing investigation into the cause of a large number of cases of diphcare during several years past, I have almost arrived at the conclusion that the primary infection of an individual comes from the fungi which are found as spots of different colors on the exterior of fruits, particularly apples. As far as the power of my microscope has shown, these fungi seem identical with the fungi from a diphtheritic ulcer; and last autumn I traced a number of cases, at one time five together in one family, back to the eating of apples picked from the ground in orchards without previously cleaning the fruit by rubbing or washing."

er animal and vegetable organisms | them. is periodical, referring to the dis- right ease of the grape vine and the fun- male is known as Asiatic cholera.

not multiply. Just as the ground citizen. disease.

part of the body is subject, the Act conferring upon women Delaware have each one qualifica- invention that in all probability all that is claimed for the new mo-

diseases.

or repulsion of infectious disease, sional legislation.

UTAH'S ELECTION LAWS.

THE decision in the Tooele case has caused considerable discussion, particularly among those who are versed in legal lore, or have made a duties of citizenship and the power of Legislatures over the elective franchise. As it is not unlikely before the courts in a new shape, and the public mind may again be agitated on important questions involved in it, we now renew its discussion that the main points may

We have two territorial statutes defining the qualifications of voters; may be admitted to citizenship one approved January 21, 1859 and amended Feb. 5, 1868, the other approved Feb. 12, 1870. The Registra-years. Eighth, foreign-born wotion law approved Feb. 22, 1878, men, the wives of native-born or the validity of a portion of which naturalized citizens, who, if they has been called in question, recognizes and provides the means for carrying into exercise the rights any oath or going into any court or established by the laws previously referred to. It does not establish theria that have come under my the qualifications of voters, (unless "equality" and "uniformity" in the residence of one month in the the laws on citizenship, using these precinct, to which the voter is re- terms as presented by the objectors quired to make affidavit shall be so to our election laws? regarded), but merely sets forth the But it may be argued that this manner in which the claims of does not touch the suffrage quespersons qualified to vote under the tion, it only affects citizenship. former laws may be received and This is very true, but the princi- have been recognized as "eleacknowledged, and the powers ple involved is the same in both ments," also overturn the idea that

article, the validity of those older voters be exactly the same in every of the limbo to which it has been laws rather than of the new new instance? Can there not be differ- consigned by dogmatic "science," statute is in question, on the objec- ent classes of voters as well as dif- and, claiming the attention of the tions which were raised in the ferent classes of citizens, and does savants, is forcing some of them at Tooele case, and treated upon in | not the uniformity of laws demandthe opinion of the Supreme Court ed apply rather to all voters in of this Territory. Let us look into each class than to all of The Doctor accounts for the pre- them, and see whether they are every class? We think so. The through a permanent magnet has valence of this disease during a re- sound in principle and within the Utah statute, specifying the cent period, by showing that the limits of the powers conferred upon qualifications of male voters is ac. dicule, very likely because its prinappearance and flourishing of low- the legislative body that enacted knowledged by the objectors to ciples are not clearly understood. gus which grows on the ears of States, over twenty-one years of class not required of the other. rice in the East Indies, which is age, who has resided in the Terri- This we referred to above. It is in he has worked out independently, supposed to be the cause of what tory six months next preceding the regard to officers and soldiers of the and explains his discovery, his apelection, and is a tax-payer in the United States, who cannot vote, if paratus and its application in sim-The question may be asked, if Territory. An exception is made they have all the qualifications re. ple form, and in doing so discloses diseases of this character are caus- in regard to officers and soldiers in quired of the other class, unless ed by funig on fruit and other pro- the United States army, to which their home and place of residence tro-magnetism which have hitherto ducts, why are not all persons we will again refer. The second were in this Territory at the time of escaped the attention of the greatwho partake of them attacked by confers the elective franchise upon engaging in military service. On est scientists. They uttered the fiat the disorder? The answer is, be- every woman over twenty-one the "inequality" theory and the of impossible in consequence of cause certain conditions are neces- years of age who has resided in the "separate class" objection, would their ignorance of a simple truth eary for the fructification and de- Territory six months next preced- not this be just as void as the easily demonstrated. velopment of the germs. If there ing the election, and who is either woman suffrage act is claimed to Mr. Gary is the son of a clergyis no predisposition in the system, a native or naturalized citizen, or be?

found it to answer admirably. He with which physicians pass through ity of either law is founded on the they generally hold property only which he had so long been in in April will not do as well, gene- their vital force to resist the attacks provisions for the two classes not The Legislature of this Territory claim in his own language. rally, as that planted a month which prostrate the timid and being uniform, the discrepancy is is empowered by the Organic Act later. And in Indiana last year, frightened, who anticipate the evil pronounced fatal, the doom falling and the laws of Congress to pre- piece of iron placed across the poles

on the later law.

States or tain paper certifying to a judicial in our opinion, cannot be fairly inact in their case. Fifth, their validated. adult children, who have come to this country before the age of twenty-one years, who are citizens without taking the oath or obtaining the certificate. Sixth, those who that this matter may again come army and been honorably discharged, who need not declare their intentions, nor prove more than one year's residence previous to application for citizenship. Seventh, those of foreign birth who arrived in the United States three parents are not naturalized, who without declaration of intentions, after five years' residence and arriving at the age of twenty-one might lawfully be naturalized, become citizens by virtue of their marriage, without taking

therein conferred may be exercised. cases. Now let us apply it to the transmutation is an impossibility. As we have shown in a previous suffrage. Must the qualification of The first confers the be valid. Well, that establishes But Mr. Wesley W. Gary comes to vote upon every two classes of voters, with before the world with a perpetual citizen of the United a special qualification for one

Territories where when wrested from their true signithey reside may prescribe, those fication and misapplied, as in the persons of foreign birth who have anxious to deprive the women votbecome naturalized by taking a ers of Utah of the rights conferred certain oath and obtaining a cer- upon them by enactments which,

AN "IMPOSSIBILITY" PLISHED.

have served in the United States SCIENTIFIC men often complain of the dogmatism of theologians. Yet they are frequently as positive as those of whom they complain, and have as little reason for their assumptions. They make assertions years or more before reaching the about things that have not been age of twenty-ene, and whose accomplished, adding the assertion that they are impossible of attainment. Among these so-called impossibilities are, the transmutation of metals and perpetual motion. The alchemists of the middle ages, vainly searching after the secret of some other classes that we need discovered perpetual motion, or not mention. Where is the exact rather a perpetual meter, is generally classed by scientists in the same category. Yet the recent researches of Lockyer have disclosed secrets heretofore hidden from the world's wisdom, and, upsetting the established ideas concerning what

Perpetual motion now comes out least to change their position of positiveness and incredulity. Miss Hosmer's invention of "power" been the subject of considerable rimotive power, something after the plan of Miss Hosmer's, but which facts involving principles in elec-

man in Cortland county, New the spores are not matured and do the wife, widow or daughter of a Now for the laws of various York, and was born in 1837. His States. The New York election father not only preached theology, so controlled as to exercise the most must be in the right condition for These laws have been in force for law provides that white male citi- but gave lectures on scientific subseeds to germinate therein, so the several years, and under their pro- zens may vote without a tax quali- jects. When his son was about nine a clock or watch that will need no blood must be susceptible to ans- visions both male and female vo- fication, but requires colored voters years of age, and telegraphy was a wer to the needs of these germs of ters have cast their ballots at our to possess a freehold of \$250, and to wonder to the general public, he elections. The question now rais- have actually paid a tax thereon. used an electro-magnetic machine be variously applied. The reason why diphtheria so ed is aimed at the abolition of This color discrimination is to illustrate his lectures on this

producing a spongy condition and the elective franchise is void. If tion for voters over twenty-two will make him famous throughout rendering it liable to diphtheritic this cause of objection was of any years of age, and another, for those the world. A severe attack of inreal force and effect, it would seem between twenty-one and twenty- flammatory rheumatism after ar-Dr. Querner admits the infec- rather to strike at the tax qualifications nature of diphtheria, and tion imposed on male voters but required to pay taxes and the lat- producing this result. For he was shows that a person affected prim- not on female voters, and make ter being exempt. Here is the very compelled to cease his occupation arily in the manner stated above that requirement void without af- same principle against which ob- of floating lumber from Western the Amber variety of sugar cane may become the centre of infection fecting the validity of the later jections are now raised in the elec- New York to Troy, and employ his continue to be presented through fer others. It has also been proven statute. But this is not what the tion laws of this Territory; that is, mind rather than his body. He the press and by private communi- that by multiplication the germs of objectors desire. The attempts to one class taxed, another class un- devoted his time principally to encation. All go to establish the fact this disease increase in vigor. Thus, procure the repeal of the woman taxed. There are, no doubt, reasons deavors to lay hold upon and cona patient suffering with but a mild suffrage law having so far failed, it why voters in those States between trol the force which he knew was that it is the best adapted of any attack, may communicate it to is now intended, if possible, to the ages of twenty-one and twenty- hidden in the magnet, and, while kind for this mountain region. Mr. others in a malignant form. The condition of the mind also kill by judicial rulings that which taxpayers. There are many rea- which he made money to live on, county, sent, last season, to Minne- has much to do with the reception has not been reached by congres- sons why women voters in this kept this object constantly before Territory should not necessarily be him. Four years ago he succeeded sota for some of the seed, and he And the comparative impunity The argument against the valid- tax-payers, and one is, because so far as to grasp the secret for has a few pounds of it to dispose of periods of frequent exposure, is ac- assumption that "inequality" is es- through or with their husbands, search. In experimenting with a Practical agriculturists east con- counted for to some extent by tablished by the woman suffrage who pay the taxes thereon, which magnet and a soft piece of iron he demn the sowing of sorghum seed their fearless and zealous spirit, Act, which is said to have created is sufficient, as no property ought discovered two things hitherto untoo early in the season. Seed sown their nervous energy stimulating "a new class of voters" and the to be subject to the same tax twice. known to science. This is his

"I have discovered that a straight scribe the qualifications of voters, of a magnet and near to their end, changes its polarity while in the magnetic field and before it comes was ripe enough to produce the theory appears to be viewed with of citizens? The laws of the United been enacted within those powers in contact with the magnet, the best quality of syrup. May is gene- increasing favor among the faculty, States recognize several classes. and limits. The "uniformity" and fact being, however, that actual rally early enough to plant sugar and particularly among microscop- There are: First, all persons born "equality" contended for, are not contact is guarded against. The conditions are that the thickness of er valleys. It is important that the disorders which cause so much suf- untaxed. Second, Indians born strictions. They merely express the iron must be proportioned to best kind of seed should be obtained fering and woe can be fully deter- here and taxed. Third, those born certain principles of law recognized the power of the magnet, and that in good season, and then wisdom | mined, the remedy may then be | in this country, but over twenty- | by jurists, and which are just and | the neutral line, or line of change in the polarity of the iron, is nearer or more distant from the magnet according to the power of the latter and the thickness of the former. who are under this age being de- opinions in the Tooele case, and in My whole discovery is based upon barred from this privilege. Fourth, the arguments of those who are so this change of polarity in the iron with or without a battery."

The neutral line and the change

of polarity are the two "new things under the sun" which Mr. Gary has discovered. Of course the principles are as eternal as the elements, but they have hitherto been unknown to modern science. difficult without It is to fully explain the agrams force of this new motor and its perpetual action. To demonstrate the neutral line and the change of polarity, Mr. Gary uses a horse-shoe compound magnet, a piece of soft iron and a shingle nail. The iron, which becomes magnetic when in the magnetic field of the permanout magnet, is fastened to a lover, by which it can be raised and lowered. Raising the induced magnet above the neutral line, the shingle nail when applied will cling to it. Lower the induced magnet, and when it reaches the neutral line the nail will drop, to be caught who spent much valuable time in again by the induced magnet when the neutral line is passed. The change of polarity is shown by the transmutation, are looked upon by point of the nail turning inward modern chemists as semi-lunatics. toward the permanent magnet bereceiving any papers. There are And any one now claiming to have fore reaching the neutral line, and when clinging again after that line is passed, its point turning outwards.

> The action of the force is shown by using a balanced magnet and a stationary magnet, placed with opposite poles facing each other, in such a way that a piece of soft iron attached to a lever is balanced between their respective poles on the line of neutrality. This cuts off the attraction of the stationary magnet. By touching the lever the iron is raised, when the balanced magnet is attracted by the stationary mag. net and lifted towards it, but when the iron is again let down the balanced magnet drops. In the machine used by Mr. Gary, the balanced magnet is made of two magnets clamped together and hung so as to act as a beam. And when the iron is moved by the lever, and the beam magnet is made to act, by pins and other levers properly adjusted, the beam strikes so as to cause the iron to move so that its polarity is changed, and this, acting again upon the beam, the motion is kept up as long as the materials endure.

Magnetic force has been recognized for many years, but has always been regarded as static. It is now proven to be dynamic. And thus the motion is not merely a sort of balance which is kept up by equilibrium, imparting no motive power, but by increasing the size of the magnets enormous power can be obtained, sufficient to run the heaviest machinery, and it can be delicate force desired. It will run winding, propel a locomotive or wield a mighty hammer, as it may

Harper's Magazine for March, frequently attacks the throat, is woman suffrage. It is claimed veid, not because of "inequal- subject. This aroused young Gary which can be obtained at Dwyers, the preparation made by re- that as there is one qual- ity" or non-"uniformity," but to reflection as well as curiosity, contains a lucid article on this subvious attacks upon the mucous ification for male voters because of the Fifteenth and finally led him to prosecute in ject, illustrated with diagrams, to membrane of the pharynx by the which is not required of female Amendment to the Constitution. vestigations and undertake experi- which we refer those who care to various affections to which that voters, namely the taxation clause, Rhode Island, Pennsylvania and ments which culminated in the investigate the matter further. If