MAKING FIRE-WORKS.

The Process Described by an Argus-Eyed Correspondent.

How Roman Candles Are Constructed Balloons of Various Shapes and Sizes-Catherine Wheels and Other Grotesque Devices.

It would seem to many that the manufacture of fire-works is a simple and easy matter, writes a correspondent of the Albany Argus. But as ne machinery of any kind is used the manual work necessary makes it much more laborious than where all the process is performed by perfected machincry. A knowledge of the laws of chemistry is also essential. In order to give the reader some idea of the process let us select the Roman candle as the most ordinary of Bre-works, and follow it in its journey from room to room and from building to building. The first department we enter is that where the cases are made. This is done in the following manner: Cartridge paper is out into the length and size required and laid on a marble slab, where paste is spread over one side, care being taken that the paste does not get on the side touching the roller round which the paper is then wrapped, for if the roller is wet it will tear the paper in drawing it out. This roller is of brass or wood and the case comes off it looking as though it had been made from paper of one thickness, although every boy who has dissected a Roman candle knows to the contrary. After this operation one end of the case is closed. An expert workman can make from fifteen hundred to three thousand a day of these, aocording to size. After rolling the cases are aced on shelves and sent to the drying room o be thoroughly dried. In this same department is a machine for trimming off the rough ends so that the possibility of any accident happening from unnecessary friction is lessened. These cases beside being used for filling have also various other purposes, such as mailing, etc. While the Roman candle is progressing thus far on the jourmey let us peep in at the laboratory door, where chemicals are being mixed. The performance of the principal part of fire-works depends much on the composition being very fine and well mixed; therefere great care is taken in this part of the work and particularly for the composition of sky rockets and also in all fixed works from which the fire plays regularly. The chemtool mixtures are then distributed to the workmon, who in turn take them to the moulding room, where, with little manipulation, they are placed in moulds and made into "stars" or "balls" as they are more common-ly termed. These are all colored, for the pale white lights have given place of late years to those of beautiful tints. The color of the stars seen in this department would deceive one as to that which they display when fired. The green produce a blue light and the blue supa to green. White is made from red stars, red from gray, and so on until every color of the rainbow is catalogued. It is at this point where we meet the case

again ready for the roception of the chem-icals thus prepared. This is called the charging department. Before the work-

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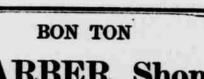
FULL WEIGHT

Its superior excellence proven in millions of homes for more than a quarter of a century. It is used by the United States government. En-dorsed by the heads of the great universities as the Strongest, Purest, and most Healthful, Dr. Prices Cream Baking Powder does not con-tain amonia, lime, or alum, Sold only in cans.

like an honest man. References; John Stoddard, Walnut creek, Neb.; Mr. Beardsley, Logan, Kan, My house is 12 miles south of Red Cloud,

in Smith county Kansas. 48.tf J. L. ELLIOTT.

Are you going to buy a carpet. If so do not fail to call and examine my stock and prices. F. V. Taylor.



LEGAL NOTICE.

District court of Webster county. Nebraska. C. E. Lovet', plaintiff,

District court of Webster county. Nebraska. C. E. Lovet', plaintin, Ys Oscar T. Mitchell, William F. Confer, John S. Bailey, George W. Jones, John S. Bailey, George W. Jones, John Ya Webster chart, W. P. Brøwn, Marchell Brown, Henry H. Post, The west one-half of the south-west quarter, and the south-west quarter of the north-west quarter of the south-west quarter, and the south-west quarter county. Nebraska, defendants. The above named defendants will take notice, that on the 9th day of August, 1880, the object and prayer of which is to foreclose a cer-ony of the plaintif's upon and against the said west half of the south-west quarter and the south-west quarter of the north-west quarter of the reasurer of said Webster county, Nebraska, the object and prayer of which is to foreclose a cer-ony due to the plaintif's upon and against the said west half of the south-west quarter and the south-west quarter of the north-west quarter of the treasurer of said Webster county, Aforesaid, arising by virtue of the sale of said land on September 17th, 1882, 1883, 1884, Nebraska, to one K. T. Hotchkiss, for he traves delinquent upon said land, for the parts 1874, 1876, 1877, 1887, 1884, 1882, 1883, Webster in the is now owned and heid by this plaintif, and it is the further object and prayer of said petition to declare the several liens and for said aforesaid junior, inferior and subsequent plaintiff, and it is the further object and prayer of said petition to declare the several liens do not plaintiff, and the takes for subsequent years in the lien of plaintiff's lien and claim and for said aforesaid junior, inferior and subsequent of plaintiff's lien and claim and for and aforesaid petition on or before Monday. Letting T. C. Lovert. Its attorners. 241

SHERIFP'S SALE.

is the Strongest, Purest, and most Healthful, Dr. Prices Cream Baking Powder does not con-tain amonia, line, or alum, Sold only in cans. PRICE BAKING POWDER CO. NEW YORK. CHICAGO. ST.LOUIS. Cancers can be cured, having devo-ted a good deal of time for the last 35 years to the study and cure of can-cers, and having never in one single instance failed where I had the pa-tient before the cancer commenced to eat and agrate, and many where they had commenced. Come right along dear friends to my house and I will send you home in five days rejoicing. If I cannot cure you I will tell you so like an honest man. References: braska.

Given under my hand the 27th day of July, 1889. H. C. SCOTT, Sheriff, John M. Ragan, Plaintiff's att'y, 1-5t

Take Notice. Take Notice. To William Arnold: You are hereby notified that on the 7th day of November 1887, I, L. Baum purchased at public tax sale from the county treasurer, M. B. Me-Nitt, at the court house in Red Cloud, Webster county, Nebraska, for the taxes of the year 1886 amounting to 86,95. The following described land situated in Webster county Nebraska, taxed in the name of William Arnold. The north-west ¼ of the south-west ¼ section 6 town 8, range 9 west of the 6 p.m. containing 40 and 14-100th acres. The time for redemption of said land from the lien of said tax sale will expire November 7th 1889, and if not re-deemed before the above date expires I will make application for a treasures tax deed. L. BAUM.

Take Notice. To William Arnold: To William Arnold: To ware hereby notified that on the 7th day of November 1887 I. L. Baum purchased at public tax sale from the county treasurer, M. B. Me-Nitt at the court house in Red Cloud, Webster county Nebraska for the taxes of the year 1886, amounting to \$5.90, the following described land situated in Webster county, Nebraska, taxed in



a premium. The grandest premium distribution CII Case Harvestever made. First Prize \$1,000. Cash. Second prize, a complete J. I. \$1,000 CASH ing outfit, with steam attachments. Third prize, a span of Clydesdale Draught Horses. Pianos, genuine Gold Watches, etc. A Premium for Every Subecriber. You get any of these handsome pres- FAD @9 ents for \$2.00. This is the subscription price of the new Omaha Weekly Republican.

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man is a frame capable of holding twelve cases upright, which he places in position, baving first ascertained that the insides are entirely free by passing a rod through them. This precaution is necessary bese any obstruction would cause the piece to miss fire. On one side of him, in separate compartments, are clay, composition, powder and stars of various colors, and on the other a mallet of considerable weight and several rammers of different lengths, the longest being about the same size as the case he is to fill. Taking in his hand an instrument consisting of twelve small scoops, connected in a line and exactly the same distance apart as are the cases on the frame, be fills them with clay and skillfully empties them into these cases. The same is done with the powder, the composition (which is used as a wad) and the stars. All (which is used as a wad) and the stars. All these he then packs down by means of the songest ramrod. Repeating the same pro-cess again and again, except the clay is putted, he uses a shorter rod each time timfil the case is fully charged, and pours in the end more clay, as this material guar-satees safe handling and packing and pro-tects the explosives inside. The fuse is then inserted and lastly the outside colored paper is wrapped around for beautifying the Roman candle thus made. The whole operation described here also applies to reclusts.

reclusts. Fire-crackers come from China, where the country people manufacture them as a gestime, as the Germans do toys. They are imported in boxes similar to tea chests, the hieroglyphies on them representing ad-vertisements of different firms, and they are used as ballast for the shups that bring them over. An idea may be obtained of the inter impossibility of competition when one is informed that it costs but two cents to make a pack of fire-crackers there. The Chinase were acquainted, as we all know, with the uses of gun-powder long before its introduction into Europe is the thirteenth contary, and the peasants have been for so many generations adept in the art of mak-ing fire-crackers that it has become, we might say, second nature. Of course, is many generations adept in the art of mak-ing fire-strackers that it has become, we might say, second nature. Of course, in the fire-works, where a therough unker-standing of the mynterise of chemical estimation attrictic skill are required, there manufactured in Broking artistic skill are required, there manufactured in Broking artistic skill are required to the host of the figure excellence of American untig to the higher excellence of American manufactured in Broking artistic skill are required, there unlike is requisite we are entirely out of Balloons of various sizes and shapes are now the field. Balloons of various sizes and shapes are now the two (2) range (10) west in Web

partment a predominance of the fair sex iamong the hands is noticeable, which is ac-counted for by their superior definess, quickness and accuracy in cutting and pasting. The devices in use for balloons are very amusing, often are set to wit: the south one half of the north west quarter of section thirtyfive, (35)town two(2)range (10) west in Web-ster county Nebraska, one of said mort-gages bearing date the 22d day of Sep-tember 1886 and given to secure the payment of two cutting security here the guidemess and accuracy is cutting and parting. The derives in use for billous representing faires of almost services to seen the service of t be whole affair mes upward, one after other of these shells bursts and produces ing train of variegated stars, which, in yes, shoot off and burst until the entire eavens is illuminated. Besides those already mentioned, there and the forms of fire-works, and

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OUR Morro:-Will be to please all who give ns their trade. All work done in a first-class manner and in the latest fad of the profession.

LEGAL NOTICE.

In the district court of Webster county Nebras

Frederick E. Goble, plaintiff.

Frederick E. Goble, plaintiff.
John R. Walsh, Spooner R. Howell, George, W. Howell, defendants.
The above named non-resident defendants will take notice that on the 9th day of August 1889, the above named plaintiff filed his petition in the district court of Webster county, Nebras-ka, against defendants the object and prayer of which is to foreclose a certain tax ien held and owned by the plaintiff, on lots soven, (7) eight, (8) nime. (9) ten, (10) and eleven, (11) in block thirty-one, [31] of the original town of Red Cloud, Webster county, Nebraska, for the delinguent taxes on said lots for the years 1882 and 1803 and subsequent taxes naid thereon in 1885 by him. There is due plaint iff by virtue of his said tax lien on said lots the sum of eighty and eighty-nine one bundredths dollars with interest at 30 per cent per samunr from April 29, 1885 on \$60.66 thereof and with in-terest at the same rate from July 1801, 1885 on \$50.81 thereof. Plaintiff prays in aid petition that and for all other proper relief.
Defeudants are required to answer said pe-tition on or before September, 18th 1886.
Franzomatick E. Gonstat.
By Case & McNeny, his attorneys.

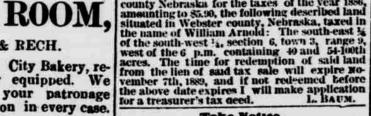
LEGAL NOTICE.

In the District Court of Webster county, Nebraska.

A. L. Funk, plaintiff.

Christ Blanke, Farmers & Merchants In-surance Co., Gale Sulky Harrow Manu-facturing Co., A. Garber, C. C. Brad-ford. J. Byington Smith, Nebraska Loan and Trust Co., defendants.

CREAMERY AND



Take Notice. To Charles W. Kaley, Jacob L. Kaley and Ru-fus M. Largent. You are hereby notified that on the 2nd day of Dec. 1887 I, L. Baum purchased at privato tax sale from the county treasurer, M. B. McNitt, at the court house in Red Cloud, Webster coun-ty, Nebraska for the taxes of the year 1886, amounting to \$17.43. The following described land, situated in Webster county Nebraska tax-ed in the name of Charles W. Kaley, Jacob L K aley and Rufus M. Largent: the north-west 'a section 22, town 1, range to, coursalning 160 acress The time for redeemed before the above date expires I will make application for a treas-urer's tax deed. L BAUM.

To M * E. Gordon: To M * E. Gordon: You are hereby notified that on the 7th day of November 1887, I, L. Baum purchased at public tax sale from the county treasurer M. B. Me-Nitt at the court bouse in Red Cloud. Webster county Nebraska, for the taxes of the year 1884, amounting to States on the following described in the name of M E. Gordon: The south-west is south-west is section 22, town 2, range 9, west is south-west is section 22, town 2, range 9, west is south-west is section from the lien of said tax sale will expire November 7th 1880, and if not redeemed before the above date expires, I will make application for treasurer's tax deed. L. BAUM.



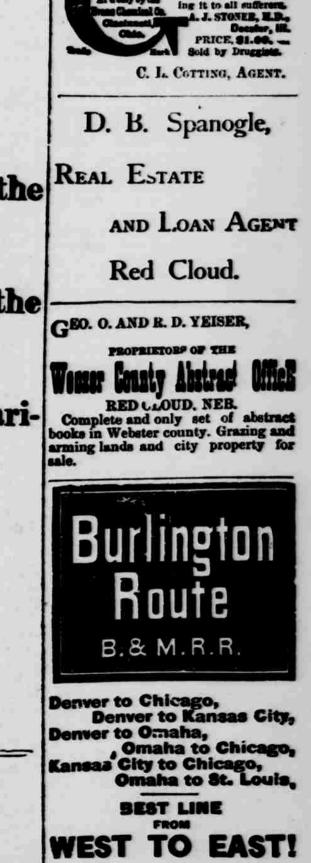
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