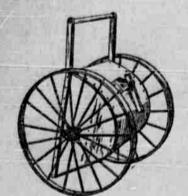
BUCKET-CART FOR CONCRETE

Main Feature of Implement Is Its Self-Releasing Leg-Swings Free Backward or Forward.

The main feature of this bucket-



Concrete Bucket-Cart.

when the cart is stood upon it, says the Popular Mechanics. The leg consists of a strong bar, hung by a bolt in a lug bracket. The bolt hole in the bar is slotted and the top end of the bar extending above the bolt is notched. When the cart is standing, with its leg vertical, the bolt bears against the bottom of the slotted hole and the notched top engages a projec tion inside the lug bracket. This holds the leg rigid until the cart is raised for wheeling, at which the leg drops by its own weight the full length of the slotted hole, and swings

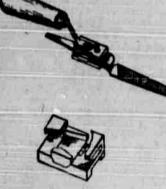
METHODS OF DRILLING CLASS

Among Many Other Various Ways It is Said That Hole Can Be Punctured With Aid of Turpentine.

There are various ways of drilling glass, all of which call for skill and patience. The following methods are suggested by the editor of Power: Put a piece of brass tubing in the drill spindle, the diameter of the tube being equal to that of the hole desired. Revolve rapidly, and feed with emery and water. For making holes in thin glass put a piece of stiff clay or putty on the part where you wish to make the hole. Make a hole in the putty or clay equal in diameter to that of the hole you wish to make, letting the hole reach the glass, of course; into this hole pour a little molten lead, and the piece will drop out. It is said that glass may also be and detachably connected though it readily drilled with an ordinary flat drill made as hard as possible, slowly revolved and liberally supplied with

Adaptable to Tools of Different Sizes and May Be Applied or Removed in Short Time.

The accompanying illustration shows a handle for files which is adaptable to files of different sizes and may be readily applied or removed. It holds the file by the tang in such a way as not to project be-



Adjustable File Handle.

low the operating surface of the file, says the Scientific American. This permits of using the file perfectly flat, which in the majority of cases is of great advantage. The clamp by which the file is attached to the handle consists of two jaws that can be locked and tightened upon the tang of the file by means of a wedge. This In turn is held in place by means of a set screw.

Lignite Coal From Texas. The lignite coals of Texas are excellent fuel for stationary plants and domestic purposes. The coal mining industry in Texas at present is not extensive, but the time is not far distant when the state will rank as an important coal producer. There are thousands of acres of lignite coal in several counties of Texas. The coal runs from four feet to ten feet in thickness, ranging from 30 feet to 90 feet under the surface. At different places in the same section coal is found at a depth of 125 feet. The seams have no gas or fire damp, and the lignite is easily mined.

Turning Sawdust Into Wood. A machine has been invented that turns sawdust, shavings, and chips into solid pieces of wood. The material is carried on a rotary belt to the machine's hopper, thence to the plunger or compressor. A pressure of 20 tons per square inch is exerted and the solid body is driven out of the machine in a shape similar to a round stick of wood four inches in diameter. The machine is said to turn out about six tons of sticks per day.

Vapor Gas Lamps. Jerusalem's municipal government has recently given a trial order for vapor gas street lamps to a Chicago company. They are to be equipped with a clock device which enables

NEW STEEL IS RUST-PROOF

Also Resists Corroding Influence of Smokeless Powder-Put Through Severe Test.

A new quality of steel that resists ooth the corroding influence of smokeess powder and rust has been manufactured in England and put through a series of the most severe tests. Five thousand cartridges were fired

through a rifle barrel made of it without showing any effect whatever on the steel. During the intervals between the firing, which covered a period of 50 days, the barrel was kept, uncleaned, in a damp cellar for the purpose of testing its resistance to cart for the handling of wet concrete rust. At the conclusion of the tests is its self-releasing leg. It swings there appeared to be nothing changed free either forward or backward about the steel; inside the barrel or when the cart is being wheeled or in its texture. In the course of interdumped, and becomes fixed and rigid nal-pressure tests, it was shown that the force required to burst the barrel was as high as 51 tons per square inch. The ultimate tensile strength of the steel was shown to be 631/4 tons per square inch and the elastic limit 54 tons per square inch. Under these conditions, it would appear that the metal could be used with great success in the manufacture of pump shafts, valve spindles and seats, plug valves, check rings for valves and for a variety of other things where noncorrosive and rust-proof qualities are

CONVERT AN AX INTO PICK

Attachment for Head Can Easily Be Adjusted-Convenient for Trimming Branches of Trees.

A West Virginia man has opened a wider field of labor for the ax by inventing an attachment for it that converts it into a pickaz. This attachment is a tool with parallel arms and a cutting end at right angles to them.



Turns an Ax Into Pick.

The arms fit over the back of the ax head and a cross bar running between them fits into a slot also in the back of the ax head. The attachment thus rests as seen in the illustration forward blow, as the stroke that releases it must come from behind. An attachment of this kind is convenient for trimming the branches off trees FILE HANDLE IS ADJUSTABLE ping off chips. In using the ax for its original purpose, however, it as they lie on the ground or for chopwould be best to remove the pick blade as it might be jolted off with painful results.

Ironing for Disinfection. Ironing the outer garments as well as the underclothing has proven to be a valuable method of disinfecting and preventing the spread of disease. Prof. K. Svehla of the Bohemian University of Prague found it troublesome to disinfect with formalin vapor the long linen coat he wore on visiting contagious cases, and he made 200 experiments with sadirons heated to 385 degrees to 594 degrees F. Linen, woolen and cotton cloths of various textures and every grade of thickness were tested, pure cultures of the bacilli of typhoid, diphtheria, dysentery, etc., being rubbed on them before troning. One application of the hot iron was sufficient.

Fiber Shredding Machine.

It is claimed for a newly invented fiber shredding machine introduced in Mexico that it will do the work of fifty laborers, and do cleaner work than can be done by hand.

For Polishing Metal.

For polishing places on metal work not easily reached an emery cord has been devised, a strong thread being coated with finely powdered emery.

INDUSTRIAL

Uncle Sam has 51,000 sawmills. A single grain of indigo will color a ton of water.

Oxalic acid will remove most stains from lumber.

Running water over aluminum plates is said to be a boiler scale cure. Cotton is the most important product among the imports into Germany. The United States spent nearly \$7,000,000 for mineral water last year. Is dedicated "to the honor of God and A tool for removing the wire stitches | St. Peter." Peter is the titular saint

from magazines has been patented by

a Colorado man. The oil product of the United States is now several times that of the entire

world seven years ago. In five years the packing house products of the United States have demanding ale and bread from the celincreased by 30 per cent.

By the first of next year India will be making its own railroad raits instead of importing them.

The asphalt deposits of Cuba, when developed, are expected to prove superior to all others throughout the

During the first quarter of the present year millinery exports from Paris to the United States fell off by more

than \$400,000. China is offering an unusually favorable market for American ginseng. them to burn a designated number of The stock at Hongkong is lower than for several years previously.

New News of Yesterday

By E. J. EDWARDS

Would Have Changed History vice president with Lincoln in 1864 miscarried. We knew that he would receive anywhere from a hundred and

Thurlow Weed's Chat About the Effort to Nominate Daniel S. Dickinson for Vice President With Lincoln.

"How different would have been the course of American history right after the close of the civil war," said Thurlow Weed to me a year or two before his death, which occurred in 1882, "had we been able to accomplish what a good many of us thought would be a very wise thing to do at the time of the convention in 1864 which nominated Abraham Lincoln for presi-

The famous old Whig and Repub-Hean political leader paused for an instant and reached out his hand towards me so that he might feel my hand, since he was then almost

"Did you ever see Daniel S. Dickinson?" he asked. "Did you ever hear him speak? If you did, you were fortunate. I believe he came from a little town on the site of a mountain in northwestern Connectiteut, called Goshen, and that in his early life he expected to be a tailor. But he was a born orator. Did you ever hear him?" I told Mr. Weed that I had seen and heard Daniel S. Dickinson in the summer of 1863, and that he greatly resembled physically Henry Ward Beecher, excepting that he was a

taller man. "Yes, that is so," Mr. Weed replied. "He wore his hair long, as Beecher did; he was also smooth shaven and he had the same projecting or full eyes which I long ago learned are one of the best physical evidences of the power of oratory. You heard him make a political speech, I presume?"

I replied that Mr. Dickinson had come to Connecticut not to make political speeches, but instead to speak for the cause of the Union and so to speak as to encourage men to enlist. "Oh, I remember that time very

well," Mr. Weed replied. "It was just after the draft rlots in 1863 and enlistments were slow. It was necessary to fill up depleted regiments. Mr. Dickinson was sent for to make speeches in Connecticut, Massachusetts and Rhode Island. These enthusiasm which prevailed in New England during the first year of the

"That he certainly did in my town," public square. There was a great crowd around the platform. After he finished, some twenty-five or thirty young men stepped out of that crowd. went to the platform, and gave their names to the enlisting officer, who sat at a table there."

"Now," continued Mr. Weed, "you will understand why so many Republicans thought that it would be the wisest step to take to nominate Daniel S. Dickinson for vice president with Lincoln at the Republican national convention in the spring of 1864. Dickinson was universally recognized as one of the greatest living orators of the United States. He had been United States senator from New York. He had been a Democrat all along and a warm friend of President Franklin Pierce, but when war began he was one of the first to put party behind him

"I never knew exactly why the plan to nominate Daniel S. Dickinson for

receive anywhere from a hundred and sixty to two hundred votes in the convention. We thought that strength replied. "Mr. Dickinson spoke in the of that kind, and the fact that his name on the ticket would strengthen the ticket in New York state, then as now the critical state in presidential elections, would in all probability bring the nomination to him. We had good reason to believe that Lincoln would be pleased if Dickinson were nominated, and that belief was confirmed when, after the convention had done its work, we learned that Lincoln, although he did not complain, was disposed to regret the nomination of Andrew Johnson. I have always been convinced that the real history of Johnson's nomination is known to only one or two men. But suppose a man of the energy, the brilliancy, the fine record and the oratorical power of Daniel S. Dickinson had been nominated with Lincoln in 1864. Then, I am convinced, our history would have been different, for the four years immediately following the close of the war."

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First Colonel of Negroes

How Robert G. Shaw, Though Citizen of Massachusetts, First Enlisted With the Seventh New York Regiment.

Fifty years ago one of the most famous of the many regiments that fought on the Union side in the Civil war marched down Broadway, New York, for the front, in response to Lincoln's first call for volunteersthe Seventh New York. Marching with it to war as a private went that scion of a Massachusetts family which had been prominent from Revolutionary days who was destined to become the leader of the first regiment of negro soldiers formed under state authority in the north-Robert G. Shaw. This fact is so little known that most of the hiographies of Colonel Shaw state that at the outbreak of the war he entered the service with the Second Massachusetts as a second lieuspeeches rekindled the excitement and | tenant; yet there is the roster of the Seventh regiment with Shaw's name upon it, to prove that Shaw saw his

first service in the Civil war with the

Wrong That Ingalls Righted

How the Brilliant Kansan Took Back His Caustic Remark About Senator Logan "Thinking He Was Thinking."

In 1882 General Grant published an article in which he frankly admitted that he had been in gross error in imputing to Major General Fitzjohn Porter conduct at the second battle of Bull Run, in August, 1862, which justifled the verdict of a court-martial by wrich General Porter was cashiered, al-missed from the army and forever prohibited from holding any office under the United States government. As a result of General Grant's magnantmous action, which he called a simple act of justice, congress passed a bill removing some of the penalties prescribed by the court-martial. There were, however, some technical defects to this bill, and General Arthur was compelled to veto it. But in the first administration of President Cleveland another bill became a law by which the sentence of ex-General Porter was expunged, and he was restored to the United States army with the rank of

At the time the so-called Fitzjohn Porter bill came before the senate in the administration of President Arthur, public interest was greatly aroused; there were many senators who accepted General Grant's view that General Porter had been unjustly sentenced, while others were sincerely convinced that the verdict of the court-martial was fully justified by General Porter's conduct at the second Bull Run.

It was observed by a number of senators about this time that Gen. John A. Logan, one of the senators from Illinois, contracted the habit of spending an hour or two every after noon pacing back and forth before the screen which concealed the cloakroom from the senate chamber, General Logan always were a frock coat which carried coat-tails of unusual length, reaching below his knee. He presented a striking picture as he slowly paced back and forth along the rear aisle. His head, covered as it

St. Peter's Day Customs.

merly the occasion of a curious ceremony at Westminster Abbey which,

as every Englishman does not know,

of fishermen, and every year on his

festival a fine salmon from the river

Thames was offered upon the high al-

tar of the minister, the donor on such

occasions having the privilege of sit

ting at the Abbey table at dinner and

Another St. Peter's day custom was

a procession of the Fishmongers com-

pany of the church of St. Peter, Corn-

hill. St. Paul's school is associated

with St. Peter, and the old rule that

the boys should number 153 had al-

caught by the fisherman saint.

out a certain sum down."

nakes her expensive."

lusion to the reputed number of fishes

"That prima donna won't sing with-

"Well, her extraordinary register

"I see. It's a cash register."

St. Peter's Day, June 29, was for-

was with thick masses of very black hair, locks of which strayed frequently over his forehead and were tossed back with an impatient jerk of the head, was bent forward, as though he were studying the outlines of the floor. Occasionally he would thrust his hands beneath his coat-tails and cause there to flap violently. He seemed absorbed in deep thought, but there were sen-

ators who thought he was posing. "Ingalls," said a colleague to the brilliant senator from Kansas, "Ingalis, have you noticed Logan pacing meditatively back and forth at the rear of means? Is he posing to the galleries?"

of the gallery; he does not need to do that, for the eye of the gallery is always fixed more or less upon him. I am satisfied that Logan thinks he is thinking."

Two days later Logan began a ditional in the senate. It was in opposition to the bill which, if passed, would relieve General Porter from the stigma and penalties consequent upon the finding of the court-martial. The powerful oratory so command the sen-

One of his most attentive listeners of Kansas. When Logan's speech was is this: Let him be buried with the finished. Ingalis was the first to congratulate him, and having done that, I am sure, would have been his sought out and faced the senator wish." to whom he had said that Logan thought he was thinking. "I was mistaken in what I said to

you the other day about Logan," Ingalls confessed. "John Logan was really thinking. And what he thought he has now told us in this great speech. (Copyright, 1911, by E. J. Edwards, All Rights Reserved.)

which furnished 660 officers to the Union out of the men who marched to the front with it on April 19, 1861. I have heard George William Curtis explain in this fashion how it was,

famous New York city regiment

that Colonel Shaw happened to begin his military service with the New York regiment. "It was due to a chance visit that

Robert Shaw made to my house on Staten Island. My wife was his sister, and though he was of Massachusetts citizenship, he was in the habit of speaking of our Staten Island home as his other home.

"In the winter of 1861 he was with, us. From day to day he followed closely the development of the relations between the north and the south. He was sure that was war inevitable; he believed that it would be his duty to enlist for it, and with that idea in mind he became a member of the Seventh regiment. Well, in the spring the war that he had looked for came, and he went to the front as a private, and we were all proud of his handsome appearance, the patriotic earnestness shining in his face, and his soldierly bearing as he marched away with his musket upon his shoul-

"The Seventh enlisted rst as a three period Robert went back to his own state and was given his first commission in the Second Massachusetts. Then, in 1863, when he was a captain, came the incident of which all of his family, and especially his father, was very proud. "Massachusetts was the first state

of the north to raise a regiment of negro soldiers; Robert was asked by Governor Andrew if he would accept the colonelcy. Many persons thought he would decline it. His family was rich, they were members of the most cultivated circles of Boston, and he was himself a Harvard man. But he the senate chamber? He has been do told us that he regarded it as a high ing this now for several days, each duty and opportunity to accept the afternoon. What do you suppose it offer, for he believed that the moral effect produced by the leading of the "Yes, I have observed this new de- first negro regiment to the front by a parture of John Logan's," said Ingalls. man who was no adventurer would be "I am persuaded, however, that he is of great value. At the head of the not doing this spectacular pacing back regiment he again went to the front and forth with intent to catch the eye with his father's blessing and the approval of all who were near him, and he fell with many members of his regiment at the assault upon Fort Wagnev, in South Carolina, on July 18 of the same year.

"When the news of his death was speech which afterwards became tra- received by his father, and the father was asked what disposition should be made of his boy's body, he remained quiet for a few moments. His head was bowed with sorrow that his son should have died, and yet he was susspeech occupied several days in its de- tained by the feeling of honorable livery. Logan was never more ef- pride for the brief career of this brilfective; never did his rude and yet liant and handsome son. At last he raised his head and said:

"I have only one answer to make when you ask what disposition shall after the first day was Senator Ingalls be made of my son's body, and that soldiers who perished with him. That,

(Copyright, 1911, by E. J. Edwards. All Rights Reserved.) Hard on the Lawyers.

"A New York man recently had his will written by his twelve-yearold son."

"Well?" "The lawyers can't see any way to

break it.

He Took the 'Corpse's' Suit

Airship Hearse Was by No Means a Joke on the Wise Corona Cop.

"A man's hanging by his neck from t!" cried a horrified policeman in Corona, Long Island, as a big balloon wept over that village. "It's murder!" gasped the bluecoat to another man, and they started after the bal-

Others residents of Corona joined in the chase. It lasted two miles before the balloon fell. Meantime, it had smashed the inert figure against houses and trees.

The policeman was the first to reach the fallen airship. He cut the body loose from the balloon and then dug his knife deep into the gas bag. "This is a joke by some funny guy

across the river," sneered the blue-"This is a straw man, but he's wearing good clothes, and I want 'em. This joke is on the man who sent up the balloon and not on the police force

of Corona. Manhattan's got to go some before it gets ahead of this place. Here I get a suit of clothes and it won't bring in a bill." About twenty men disputed his claim to the clothes, but the gleam of his eye warned them and they dispersed in sulky silence.

He Knew. "The Mayals have a queer marriage custom," remarked the traveler. "The groom holds his nose against a small cylindrical object. I couldn't quite make out what it was---"A grindstone, probably," interposed

Mr. Grouch.-Kansas City Times. A Mathematical Difficulty. "I say, old boy, lend me an X."
"Would if I could, dear chap, but

there's an algebraic difficulty in the "What is it?" "An X with me is an unknown quantity."--Pathfinder. Patronize Home Industry-buy your meats of

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---Proprietor of---

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