AID IN WALL CONSTRUCTION

Object of St. Paul Inventor Is to Elimi-

nate All Planes of Weakness

and Permeability.

In speaking of the objects of an in-

vention of A. F. Meyer of 1001 Germa-

nia building, St. Paul, Minn., the Sci-

"Among the several important ob-

jects of this invention is the provision

of a wall construction designed to

eliminate all planes of weakness and

permeability resulting from the depo-

sition of concrete in successive hori-

zontal layers and to make possible and

Wall Construction,

practicable the production of a pleas-

ing window openings and ordinary

panels for the walls, the last being

filled with concrete or other cast ma-

terial, each panel being cast as an in-

NOISE IS QUITE EXPENSIVE

Din Caused by Use of Stamps as

Crushing Machines is Responsible

In a recent conversation the super-

intendent of a large stamp mill made

the observation that "noise costs

money." We had been discussing the

use of stamps as crushing machines

and the comparative merits of various

devices for crushing ore. One of the

arguments advanced by this superin-

tendent against the use of stamps was

the tremendous and never ending

noise produced by the falling weights.

In his opinion the din was responsible

for many misunderstood directions

confusion, loss of time and expensive

mistakes. The point is readily per-

ceived. The average mill employe is

anxious to give the impression that

he understands the boss' orders, and

rather than ask a question for fur-

ther information, he will sometimes

pretend to understand and then go

and seek advice from a fellow work-

man. The order may be wrongly exe-

cuted or not at all. The noise of the

stamps contributes greatly to this

condition, makes it difficult to give and

receive orders, and undoubtedly

causes many mistakes. The cost of

noise may not be estimated exactly.

but it is a real factor.-Metallurgical

Beveling Saw Guide is Adapted to All

Purposes for Which a Miter Box is Employed.

A new type of beveling saw guide

recently placed on the market is also

adapted to all the purposes for which

Beveling Saw Guide for Carpenters.

Engine Driven by Vapor.

cury, which is condensed and used

Available Water Power.

The geological survey has estimated

the available water power of the

United States from 36,000,000 to 65,-

500,000 horsepower, not including the

power that could be conserved by

Carrying Barrels.

invented a four-deck wagon, barrels

being hoisted in an elevator to the top

me and rolling from one to another

intil they reach the bottom, where

Varnishing Furniture.

By the application of an electric

leater to the air tube the spraying

of varnishes on furniture has been

Aeropiane Engine Prizes.

rood as it would if cold

For carrying barrels there has been

is used independently.

reservoirs.

hey are unloaded.

and Chemical Engineering.

for Misunderstood Orders.

tegral block.'

entific American says:

THREE OF MOST SENSATIONAL "COMEBACKS"



Claude Derrick, New Shortstop of Chicago Cubs.

sational "comebacks" of the season. was given to their fate. They had Naps. dropped out of the fast set and were which they were sent, and now they

are back in the big yard again. The New York Americans sold Cree

ton Brave. He was shunted to In- with the Cubs.

"Birdie" Cree, Claude Derrick and | dianapolis and then on to Cleveland, Jay Kirke are three of the most sen- in the American association. With Cleveland, Kirke hit for .351 and was When this trio was cast adrift by ma- the real batting leader of the associafor league clubs little or no attention tion. Now he is with the Cleveland

Claude Derrick, the new Cub shortheaded for the minors. But now it's fielder purchased from Cincinnati has a different story. All three accom- fit in the cavity in great style and is plished wonders with the teams to said to be the making of the Cub team. He has chased away the shortstop bugaboo. Since joining the team Claude has shown plenty of class as a to the Baltimore Orioles for \$2,500 and | batter and fielder. The Cubs are the gladly paid \$5,000 to get him back. fourth major league team he has While with Baltimore Cree led the In- played for. He started out with the ternational league batsmen with an Athletics in 1912, but wasn't kept long. average of .353. Claude Derrick also He bobbed up at the end of that seawas shipped to Baltimore by the Ath son with Mack's men and again disletics, who figured that he was appeared in the ambush. His next through in the big show. Derrick did chance came with Frank Chance's great work in the field for the Orioles | Highlanders last year. He was let loose again, to be grabbed up by the Jay Kirke, the third member of the Reds. He wore a Cincinnati uniform "comeback" triplets, is a former Bos- for a couple of days before signing

Outfielder Duffy Lewis has signed

The once great Amos Rusie has a

Pitcher Faber is the best lifesaver

Rumor has it that Manager Mack

of the Athletic club is trying to tie up

Leach is playing as good a game as

he did last year and has been the main

spoke in the machine all this summer.

In years gone by Miller Huggins was

one of the best run getters in the Na-

tional league, but this year he's far be-

Harry Bailey, the Columbus outfield-

Mike Mitchell may help the Washing-

ton Senators for a time, but the vet-

eran is failing so fast that he will not

The fact that Eddie Collins has

signed a contract with the Athletics

for a number of years is good evidence

Branch Rickey of the Browns is not

a bench manager, for he is able to get

out on the field in practice and show

Jersey City has secured Outfielder

Harris from the Paterson club of the

Atlantic league. He got three hits in

his first game with the International

The value of Wilbert Robinson to

McGraw's pitchers have been going

since Robby left to assume his own

Walter Johnson says that a change

of pitching has hurt his flinging this

season. Christy Mathewson attributes

his good twirling this season to a

The reduction in prices by the

Brooklyn Federal league club seems to

have had a good effect on attendance

and the crowds are much larger than

Outfielders Elmmett Ruh and Jim

Conley, the Columbus amateurs who

were given a few days' trial by the

Columbus club, have been sent back

Before the present season Howard

Umpire Al Orth, who tore a liga-

for several more weeks.

Sharks was rated as a weakling with

change of style in his twirling.

they were in the early season.

his men what he wants them to do.

that he got a big increase in salary.

be long in fast company now.

er, who broke a leg while sliding, is still in a St. Paul hospital, and will

his players to three-year contracts.

the White Sox have had since the

palmy days of "Big Ed" Walsh.

hot job this year. He is working in

a Seattle gas plant.

hind his mark.

play no more this season.

by the St. Louis Federals.

with the Boston Red Sox for two years.

O'NEILL IS CLEVER CATCHER

Young Backstop of Cleveland Team Is Tall and Rangy, With Fine Build for His Position.

Stephen T. O'Neill, the sterling young catcher of the Cleveland American league club, was born at Minooka, Pa., on July 6, 1892, and is tall and rangy, with a fine build for a catcher. He played independently with the



Catcher O'Neill of Naps.

Minooka Blues until 1910, when he went to the Elmira, New York State league club, now managed by his brother, Mike, the once-noted major league pitcher. He caught 28 games and was released to enable Elmira to keep him from the draft, but Connie Mack's keen eye caught him and he was drafted by the Athletic club. He went south with that team in 1911, but on the return was sent to Worcester of the New England league, from which club Cleveland bought him in the fall of

Dunn Sells His Stars. The New York Sun says: "When the International league adjourned here recently Dunn was advised to sell some of his ball players instead of saking his fellow club owners for financial aid. It developed that Dunn could obtain enough money for half a dozen of his stars to pay the running expenses of the Orioles for the rest of the season, and still have something burdens in Brooklyn. left. Dunn, although opposed to letting his players go, soon found himself on the defensive, with the result that he left the meeting determined to make several big deals."

Almeida is Missed.

Several of the Cincinnati players wish that the club had kept Rafael Almeida. The quiet, amiable Portuguese-Cuban was a soothing, not a disturbing influence, and how he could slay that ball when called on in a pinch! He could play the outfield. too, and the boys think that in two weeks' time, played regularly, he could fully replace Marsans. It was one of the great errors of 1913 when Almeida to their respective clubs by Manager was sent away, and he'd be extremely Hinchman.

Long Contract for Pfeffer.

President Charles H. Ebbets of the stick, but this year the Wash-Brooklyn has succeeded in signing ington outfielder has flagged that Pitcher Ed J. Pfeffer to a contract cov- sort of a rating by walloping the ball gring the seasons of 1915 and 1916, all over the lot. The instrument is one which will withtand the most rigorous tests of law and outs this sterling young man be- ment in his leg by a fall in Philadelond the reach of the Federal league phia, on June 24, when he slipped on or some time to come. Pfeffer was the concrete at the front of the playne of a very few of Ebbets' stars not ers' dugout, will be unable to work rotected by ironelad contracts.

DAY RUNS TURNS ILES

FOUNDER OF NEW YORK GIANTS NOW HUMBLE EMPLOYE.

Fortune Made When Team Won Two World's Championships From St. Louis Browns and Brooklyns Lost in Fighting Revolt.

Once the richest and most powerful magnate in the National league, John B. Day, founder of the New York baseball club, which has controlled the Giants since 1885, now draws a small salary for supervising the turnstiles at the polo grounds. Mr. Day's fortune, made in 1888 and 1889, when the Giants won two world's championships from the St. Louis Browns and the Brooklyns, respectively, was swept away in vainly fighting the Brotherhood revolt of 1890. He sacrificed all to remain loyal to the National league, which without his allegiance would have been crushed in midseason. In fact. Mr. Day refused a half interest in the New York Brotherhood club, together with a \$25,000 salary to serve as president. The story of Mr. Day's ruin is an

old one, but his wonderful faith in the ball players who threw him down never has been told. At the suggestion of James Mutrie Mr. Day organized the old Metropolitans, who won the American association championship in 1884. He leased the polo grounds, then located at Fifth avenue and One Hundred and Tenth street. As the National league was the parent body, Day and Mutrie soon applied for a franchise to operate a New York club. The team was nicknamed the Giants in 1887, because the players incladed big men-Buck Ewing, Roger Connor, Tim Keefe, Jim O'Rourke,

Mike Slattery and others. During that season the New York club made \$100,000, while in 1888 Mr. Day's profits were said to have been double that amount. John M. Ward, George Gore, Mike Tiernan, Mickey Welsh, Ed Crane, Danny Richardson, Bill Brown, Arthur Whitney, Gil Haffield, Pat Murphy and Titcomb were added to the club's roster from time to time, so that when the pennant was captured in 1889 Mr. Day was literally rolling in wealth. He allowed the players to pocket the New York club's entire share of the receipts. It was during the following winter that the Giants, with the exception of Tiernan, Welsh and Murphy, agreed to desert Mr. Day. They had joined the Brotherhood, which had formed a secret agreement with various financial

to jump, the New York magnate replied: "I do not believe a word of it! have treated my boys liberally and and orders to employes, resulting in fairly. You cannot make me believe that they are not real men."

backers to organize a rival circuit

called the Players' league. When Mut-

rie informed Mr. Day, there, that all

but three of the Giants had decided

It proved to be true, however, and Mr. Day lost his fortune.

Larue Kirby, outflelder of the Mobile PLAYERS IN ODD PARALLEL Southern league club, has been signed

Josh Devore and Beals Becker Wander Around Circuit, Playing in Exactly Same Cities.

Josh Devore is now with the Boston Nationals-a club that is being suddenly ripped to pieces and reconstructed by G. Stallings. By landing in Boston, Josh completes a strange series of wanderings, which exactly parallel those of Beals Becker-a set of coincidences, possibly never before equaled. During the last three seasons Becker, starting at Boston, went to New York " nee to Cincinnati, and



Josh Devore.

finally to Philadelphia, where he is the Giants is plainly shown by the way now located. Devore, starting at New York, went to Cincinnati, thence to Philadelphia, and finally to Boston. so that these two outfielders, in their travels, have performed in exactly the same set of cities, and no others!

> Unique Pennant Situation. Baseball has been noted for many odd situations which have cropped out since the game was made the national pastime, but one of the most unique of them all is the situation which exists in the Virginia league. In this league two pennant races take place in one season, one ending August 1 and the other starting July 2. In this way, if a team wins a game in July, that team gets credit for two victories.

one in the first season ending August

1, and one in the second season start-

ing July 2. Why this is so no one

seems to know. Life-Saver for Cardinale. Infielder Artie Butler was only a sort of a throw-in in the St. Louis-Pittsburgh trade-"to boot" as it were, but he has been a life-saver to the Cardipals, filling the gap at shortstop almost as well as Hauser could have lone it. He never had much oppor-

unity at Pittsburgh and the fact that

Fred Clarke let him get away without

testing him more thoroughly is a dem

onstration of the "Mistakes of Mau-

ROPE AS STRONG AS STEEL

Manila Stranda Together Equal Solld Bar Weight for Weight-Efficiency of Leather.

Of the flexible ropes suitable for power transmission a manila rope is just as strong as a solid steel bar, weight for weight, though only about 1114 per cent as strong per equal cross section, according to a writer in Power. Leather, on the other hand, is only about 5 per cent as strong as a steel bar of equal cross section and less than 40 per cent as strong per equal weight of material.

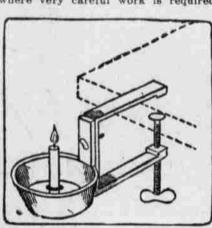
The relative efficiency of manila rope and leather belting for the transmission of power is not directly proportional to their respective strengths, however, as the internal construction of a hemp rope and a strip of leather differ greatly and vary differently by wear. Manila fibers, from which the rope is manufactured, are usually from eight to ten feet long, are composed of elongated cells that possess great strength longitudinally, but are comparatively weak transversely. Leather, on the other hand, is about equally strong in any direction, so that the wear on such a belt is mostly external. In a manila rope the wear is largely internal, the elongated fiber cells being crushed together when passing around a sheave and breaking up into short pleces. A worn-out manila rope, as far as its strength is concerned, may have the outward appearance of an excellent rope, while internally its construction is but a mass of short, broken particles. The allowable working stress of a good leather belt is customarily taken as 320 pounds per square inch, or about one-tenth its tensile strength. In the course of a year or so a manila rope will lose about 50 per cent of its original strength, after ing and durable finish by means of which the weakening becomes more brushing and washing the partially gradual. Under such conditions it is hardened concrete. Further, to provide a construction which embodies safe to figure on an allowable working stress of about 288 pounds per the assembling of a framework disclossquare inch, or one thirty-second its

CANDLE-HOLDER IS BIG HELP

tensile strength.

Enables Carpenters and Mechanics to Secure Sufficient Light in Outof-Way Corners.

An ingenious candle-holder that will be a big help to carpenters and mechanics has been invented by a New York man. A bracket with open jaws and a thumb screw to fasten it to any projection has a pan with a tube to hold the candle attached to it. There are often dark corners in buildings where very careful work is required



Handy Candle-Holder.

and it has been a great problem to get light on the work. The mechanic usually "gets in his own light," as the expression goes. In this emergency the candle-holder shown here will come in handy. It can be made fast to any end of a board or other projection, and give the desired illumination. Even NEW TOOL FOR CARPENTERS where an ordinary candle-holder could be used this has the advantage that it will not tip over.

Rock suitable for lithograph stones

in place. Belgium has forbidden the exporta-

tion of adulterated or impure rubber from the Belgian Kongo. a miter box is employed and can be used on lumber of any width. The

So thin is a new oiled silk material repeatedly, the heat given off by the

Holland yearly produces 700,000,000

Siam has resumed the production of cotton, several years ago a leading in-

four per cent of industrial accidents Folding screen panels, to inclose any

Vermont's first marble quarry,

opened about 1795, still is being profitably operated.

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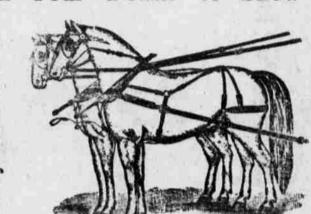
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Henry Krumwiede, Dakota City, Nobraska

NOTES OF INDUSTRY

has been found in the Philippines. For every 1,000 males employed in New Jersey there are 276 females.

Ball and socket fasteners have been patented to hold tongues of shoes

Illustration shows its operation clearly. Aluminum foil for wrapping purposes is being produced that is only onesixth of one-hundredth of an inch An engine has been invented which | thick. is driven by the vapor of heated mer-

for men's raincoats that a garment condensation generating steam which may be folded into a wallet and carried in a pocket.

blocks of fuel peat, valued at \$3,000,-

Statistics show that from two to

bed and exclude insects, have been

In Armenia there is a copper mine nade possible, the heat preventing that has been worked continuously he varnish turning white on the since prehistoric times.

Made of a single piece of metal, a new tool serves as a hatchet, hammer, nail puller and box chisel. The winner among 29 entries in a butest for military aeroplane engines hat will last several months will re-

Apple wood is the favorite material eive a \$25,000 prize from the British for ordinary saw handles, and some fill co-called briar pipes