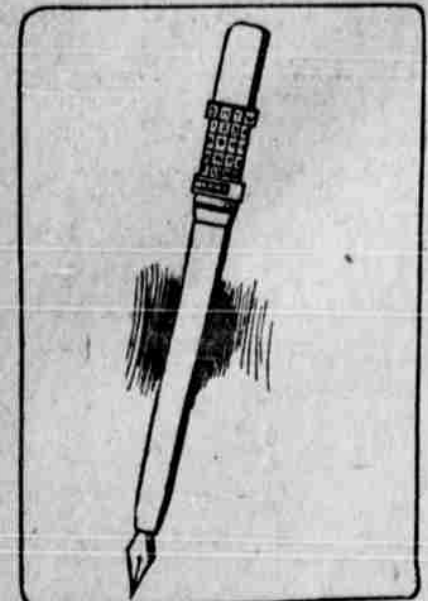


SCIENCE and INVENTION

CALENDAR PLACED ON A PEN

Revolving Figures in Handle Form Perpetual Indicator for the Man Who Forgets His Dates. Calendar on Pen.

No excuse for the man who forgets the date if he use one of the fountain pens designed by an Illinois genius. In the handle of this pen is a perpet-



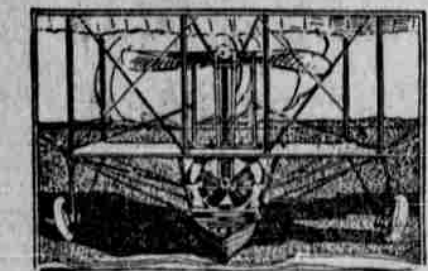
Perpetual Calendar.

ual calendar, and once the user gets the habit of setting this calendar each morning, he is never at a loss for the day of the month. Rows of numerals, representing the days of the month, revolve around the handle. Above these numerals are the days of the week and below is a band that is adjustable at different points on the handle and that serves as a frame for the date or the week that the user may want to pick out, usually the present one. Thus a busy man may always have the day's date literally at his fingers' ends, and any other date of the month will be quite as convenient for a ready reference.

FARMAN'S HYDRO-AEROPLANE

Boat Portion of Machine Has More the Appearance of Ordinary Rowboat Than Do Others.

The boat portion of Henry Farman's latest hydro-aeroplane has probably more the appearance of an ordinary water craft of the skiff or rowboat type than do the boat portions of other hydro-aeroplanes, says the Popular Me-



The Pontoon or Float of the New Farman Hydro-Aeroplane is Shaped Exactly Like an Ordinary Boat.

chanics. Some of the hulls adopted resemble more or less those of motor-boats of the hydroplaine order, to be sure, but would create a queer impression if seen floating in the water with an aeroplane upper works removed, while the hull of the Farman machine might easily pass as an ordinary boat.

NOTES OF SCIENCE AND INVENTION

A megaphone and fan have been combined in a recent novelty.

One of the newer vacuum bottles can be taken entirely apart for cleaning.

There are estimated to be at least 200,000 motorboats in use in the United States.

A patent has been granted to cover the manufacture of dog biscuits in the shape of bones.

A safety suit for aviators recently patented in England is covered with parachute-like pockets and the entire garment can be inflated to break its wearer's fall.

Malaria and other diseases have materially reduced at Jerusalem by sanitation methods introduced by an American.

To enable a person to photograph himself from a distance a Californian has invented an electrical attachment for cameras.

Riders on an Illinois inventor's merry-go-round occupy bicycle seats and provide the power by driving aerial propellers with pedals.

Spring tongs, terminating in pointed blades, have been patented by a Connecticut inventor for removing weeds, roots and all, from the ground.

The Lindenbergs conservatory in Europe recently completed ten years of daily studies of the upper air conditions by the use of kites, and both captive and free balloons.

A Philadelphia scientist claims to have invented an incandescent gas light, so mounted that its rays are filtered through colored screens until they are identical with sunlight.

MAN CAN WALK UPON WATER

Invention of St. Louis Man That Voted Suggested by Sinking of Titanic—No Aid to Swimmer.

August Sommerfeld, an inventor, has perfected and patented an invention enabling him to walk across the Mississippi as rapidly as a pedestrian could make his way across. Ends bridge, says a St. Louis correspondent. Sommerfeld has spent many weeks on the Mississippi and on Creve Coeur lake. He says it was originated for life saving.

The invention consists of a canvas-covered pneumatic tube that is pumped up like an automobile tire. It fits under the arms, extending entirely around the body, and is held in place by a belt around the waist and straps over the shoulders.

Used in connection with a webber arrangement fastened to the ankles, the wearer of the air belt is able to walk as rapidly as though on land. He has experimented with it as an aid to duck hunters. There is but little recoil from a heavy shotgun fired while the hunter is poised in the water.

The invention was suggested to Sommerfeld by the sinking of the Titanic. It is not intended as an aid to swimmers.

CHAIR IS A LIFE PRESERVER

Contrivance Also Can Be Used for a Washstand or Mattress—Canvas is Filled With Cork.

An Englishman has shown the fertility of his imagination by inventing a steamer chair that is also a life preserver, a wash stand and a mattress. The framework of the chair is like that of other steamer chairs, without the foot rest, but the body of it is a roll of cork-filled canvas, swung loosely enough to give and afford a comfortable reclining seat. By turning the chair upside down, the inventor claims, it can be transformed into a very handy washstand, while by removing the canvas and laying it flat on deck or floor a fair substitute for a mattress is provided. All the



Unique Life Preserver.

passenger needs do is keep close to his chair. If the ship should spring a leak while he is sitting in the chair, or washing on the washstand, or sleeping on the mattress, he may safely leap overboard with the contrivance, as its buoyancy will keep him afloat.

RECOGNIZE ONE'S OWN VOICE

Scientist Says Man Does Not See Himself as Others Do, Neither Does He Hear Himself.

Laloy, who appears to have scientifically investigated the matter assures us that not only does one not see himself as others see him, but that he does not hear himself as others hear him. Some interesting experiments were made by the French savant in this connection, according to London Tit-Bits.

In order to ascertain whether a man really knew the sound of his own voice, Laloy has been at some pains to determine the facts. His experiments show that if a person record on a phonograph disk a few sentences pronounced by himself, together with others recorded by friends, and causes the machine to reproduce these, it most frequently happens that the man more easily recognizes the voices of his friends than he does his own.

It appears that the difference lies in the quality of the tone. One hears his own voice not only through the air, as do his auditors, but across the solid parts between the organs of speech and those of hearing. The sound thus produced has a different timber from that conducted to the ear by the air below.

If one entertain any doubt as to this, let him try the following experiments. Take the end of a wooden rod between the teeth and pronounce a vowel continuously. Let the other end be taken alternately between the teeth and released by another person who at the same time stops his ears. The latter will find that every time he seizes the rod in his teeth the sound will be stronger than when it reaches the air above, and that it has a different quality. The passage of sound through a solid body, augments its intensity and modifies its quality.

Safety Pocket Knife.

A pocket knife in which the blade is locked shut by a steel ball in the handle until the knife is held in one certain position is the invention of a New York man.

Measure Submarine Gas.

A simple device has been invented in Germany for measuring and registering the amount of carbonic acid gas in submarines.

Testing Aeroplanes.

In a Paris aerodynamic laboratory for testing model aeroplanes wind speeds up to 71 miles an hour are produced by ingenious machinery.

"Acre-Foot" of Water.

An "acre-foot" of water, a term commonly used in irrigation, is 43,560 cubic feet, or the amount needed to cover an acre one foot.

Noiseless Typewriters.

Promoters of a new noiseless typewriter contend that its loudest sound is that made by the impact of an operator's fingers on the keys.

DIRTY PLAYING HURTS GAME

Football Facing Its Doom Because of Unnecessary and Unfair Roughness, Says George Hoff.

"The existence of football will be threatened, sooner or later, unless a growing tendency to forget the lesson of some years back and return to the practices which put the sport on trial for its life is checked."

This is the recent declaration of Athletic Director George Hoff of Illinois university, and one of the best known men in the athletic world. In explanation he says:

"I refer to unnecessary and unfair roughness. I do not criticize hard playing, and football as a matter of fact is rough. But I have noticed a gradual introduction of the same tactics which nearly cost the colleges their favorite game."

"This year I have seen 'neck wringing.' I have seen players drag their feet over the head of an opponent. 'Piling up,' even when easily seen to be unnecessary, goes unrebuked.

"The blame for the existence of this tendency is to be placed on the heads of unscrupulous coaches and complacent gridiron officials. It is a matter of common report in the football camps of the middle west institutions that certain coaches make no bones of encouraging their men to lunge and to slug if they can get away with it. Their linesmen threaten and curse their opponents, hoping to lead them into a display of honest and almost justifiable physical retaliation.

"For the most part western officials have ceased to pay any attention to unnecessary roughness. 'Let 'em fight it out' seems to be the implied attitude of many officials, especially the younger ones. And the team that attempts to be square gets the worst of it. I am a believer in football as a square, manly sport, if properly supervised. I would regret to see it lost, but I firmly believe that after success with the new style of game all will go for naught unless coaches and officials see that the practices I mention are eliminated."

GILE OF PRINCETON.



Gile of Princeton practicing toe work on the pigskin. This young player is bending every effort for the job of one of Princeton's gridiron warriors. Princeton coaches have been working every youngster on the team in the hopes of developing a "find" and to get the understudies for the older players in trim, ready for any occasion.

Michigan Votes Solidly Against Conference Return

By an overwhelming majority, students, faculty and Ann Arbor alumni of the University of Michigan have voted against a resumption of athletic relations with the western intercollegiate conference.

FOOTBALL AN ANCIENT GAME

Played at Derby as Early as Third Century in Commemoration of Victory Over Roman Legion.

Football is probably the oldest of our national games. At Derby a game of football was played as early as the third century, in commemoration of a victory over the Roman Legion at Chester, says the London Chronicle. The first football used in the annual game—still played each Easter—is said to have been the head of a Danish invader. In the Isle of Purbeck, too, the free quarrymen from time immemorial have perpetuated their claim to a grant of land by kicking a football across it. In the fourteenth century the game was so popular as to call for an edict forbidding it, on the ground that it interfered with the practice of more martial exercises. In later times Shakespeare referred contemptuously to the game; but perhaps few would be able to turn up readily the passage in "King Lear" describing "a base football player."

Pitching Marvel. Bob Scott, a youngster, who lives in Philadelphia, must be the real thing in the pitching line. He holds a job in Philadelphia, and couldn't get off to travel with a ball club. Yet, during the last season, merely slipping away on Saturdays and Sundays, he pitched 24 games for the Allentown team of the Tri-State league, winning 19, losing five and leading the hurlers. If he could do things that way, what would he do if he had a regular position on a big league club and could devote his time to the game?

New Class "AA" League.

In an effort to curb outlaw baseball, the organized elements are planning to put Class AA clubs in eight different cities next year. Cincinnati, Pittsburgh, Cleveland, Detroit, Chicago, Indianapolis, Grand Rapids and Peoria are the cities now suggested. This move is a bad one for the Class A clubs, as it will cut down the high class talent there to mediocrity.

DAKOTA CITY HAS MOST BRILLIANT ATTACK



Right-End Loudon, Dartmouth's Human Battering Ram.

For the second successive year, Princeton fell before the onslaught of Dartmouth's fighting football squad and for the second time, Loudon, Dartmouth's human battering ram in his position at right end, helped to put a crimp in Princeton's aspirations of downing Dartmouth.

Dartmouth, aside from its 6 to 0 victory over Princeton, has demonstrated that it has a most powerful and brilliant attack, and every one of the New England college teams which have attempted to check the march of the Harvard players have been forced to defeat by scores running into double figures.

English Woman Wins \$8,250 on Two Races

The Cambridgeshire handicap, the last big race of the year, was marked not only by the queen's visit to Newmarket, but by one of those lucky shots which fire the ambitions of the punters.

Mrs. Clayton, wife of Major Clayton, who has the reputation of being one of the handsomest women in English society, invested a sovereign on Flyzama, a rank outsider, which won the Cazewitch at 50 to 1. She placed her winnings on another outsider, Cantilever, for the Cambridgeshire, and Cantilever romped home. His starting price was 33 to 1, so Mrs. Clayton pocketed \$8,250.

The British racing public recently has been hard hit by a weary succession of outsiders' wins.

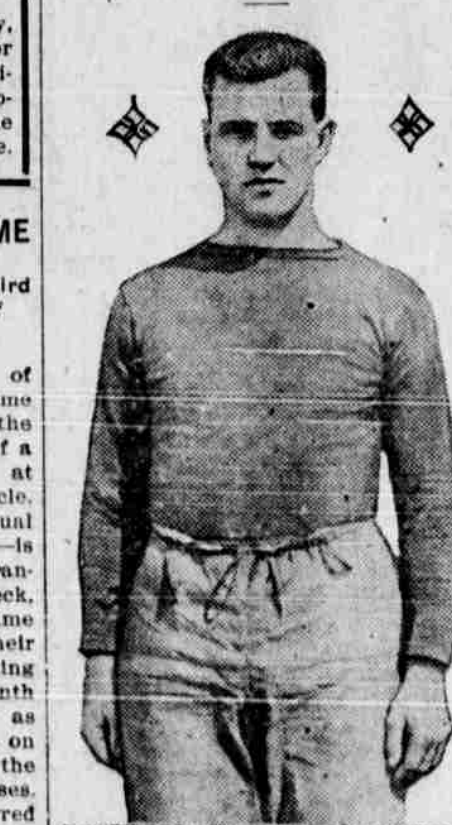
AMATEURS NOT TO COMPETE

Secretary Sullivan Refuses to Consider Proposition Made by President Gustavus T. Kirby.

Secretary James E. Sullivan of the Amateur Athletic union and other officials of that organization, including Supreme Court Justice Bartow S. Weeks and Frederick W. Rubien of the Metropolitan association, refuse to consider seriously the proposition made by their president, Gustavus T. Kirby, that amateurs be allowed to compete against professionals in track and field sports.

Pointing to the fact that the ancient Olympic games were killed by professionalism and that modern professional field and track sports had lost prestige through betting and kindred evils, Sullivan said flatly that he would never give his consent to the plan. He further stated that he would sever connections with the A. A. U if the scheme should be attempted.

TORBET OF MICHIGAN.



One of Coach Yost's most reliable and dependable players.

Yale Football Reunion.

A famous Yale football team held a reunion at New Haven recently. It was the eleven of 25 years ago, which rolled up a total of 698 points to none for its opponents. Fa Corbin was the captain of the aggregation. The team lined up as follows: Left end, Alonzo Stagg; left tackle, W. C. Rhodes; left guard, George Woodruff; center, Pa Corbin; right guard, Pudgie Heffelfinger; right tackle, Charley Gill; right end, Kid Wallace; quarterback, W. C. Wurtemburg; halfbacks, Lee McClung and Billy Bull; fullback, W. P. Graves.

Will Spend \$50,000 for Tracks.

The University of California is to have a new cinder track. Work is to commence within the next few months, and by 1915 the new athletic field will be completed. Present plans include the construction of bleachers seating 10,000 people, and a quarter-mile oval with a 220-yard straightaway. The cost of the track complete is estimated at \$50,000.

MAHAN OF HARVARD



Few players on the big eastern teams have shown better qualities at punting than this young player.

Tennis Cracks Leave for Trip to Far East

William M. Johnston and Ella Fottrell, California tennis cracks, departed for a tour of the far east November 22. Johnston is the Pacific coast champion and also holds the Longwood and New York state titles.

TRACERY IS TO BE RETIRED

Announcement Made That August Belmont's Famous Colt Has Run Last Race—Won Many Stakes.

The famous racing colt Tracery, belonging to August Belmont of New York, has run his last race, according to an announcement made recently. The colt, for which \$200,000 was refused by his owner on September 30 last, is to retire immediately to the stud. He was restricted to walking exercise when he was scratched from his next week's engagement.

Tracery is regarded by racing men as one of the best colts ever bred. He is a four-year-old son of Rock Sand, the English stallion, by Topiary, and was first brought out for the English Derby in 1912, when he ran third. In the St. Leger stakes of \$32,500 at Doncaster he was victorious at 8 to 1, and he won the Sussex stakes at Goodwood in the same year.

While Tracery was running for the Ascot gold cup in June this year he was thrown by a surrattette, Madman Hewitt, who sprang on to the course and tried to stop him while he was running at full gallop.

In July this year Tracery won the Eclipse stakes at Sandown and later in the season was placed second in the Jockey club stakes at Newmarket.

Sullivan to Lecture on Baseball.

Ted Sullivan, the veteran baseball player and scout, who is making the round-the-world trip with the Giants and White Sox this winter, will deliver an illustrated lecture on the national sport of the United States to the students of Waseda university, at Tokio, when the niners reach Japan.

Defunct Ball Cities.

Sioux City, Topeka and Wichita will all lose their Western league baseball franchises if reports to that effect are to be believed. None of these cities has made money during the past season and will consequently be supplanted by live towns.

Real Surprising.

Surprising won the juvenile \$2,000 stake at Laurel, Md., when he decisively defeated the best field of youngsters lined up this year. Surprising conceded weight to all the starters

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