

Grangemouth is the name of a Moscow editor. Evidently a farmer on the side.

Waldorf Astor has become so thoroughly anglicized that he is going to marry an American girl.

A clergyman says that bridge whist leads to mental decline. Why doesn't he try poker for a change?

Senator Pettus is declared to be a poor man and fond of poker. The last explains the first, possibly.

Perhaps boys should be thankful for whippings, as somebody declares, but they seldom are before they are 45.

Sweet Spring is now approaching, and summer with the rose, so poetry's encroaching upon the field of prose.

King Edward was "warmly received" in Paris, but not in the same way as when he used to be prince of Wales.

The czar will reserve the right to wield the big stick over the Douma, according to the latest advice from St. Petersburg.

We learn from the New York Mall that women are using garters to keep those long, arm-length gloves in place. But do they hold?

Manchuria will be finally evacuated by the Japanese in a few days. It has taken them longer to get out than it did to get in.

It is now believed that Anna Gould is going to give Boni one more chance, in spite of the fact that he has taken a great many already.

Uruguay should not be blamed for having a revolution. A review of recent South American history shows that it is Uruguay's turn.

Asks the editor of the Pittsfield Journal: "Are there four girls with gray eyes in Pittsfield?" Apparently ye scribe means to get busy.

Queen Maud of Norway is losing her health because she fears her husband will be killed. This queen business is not all pickles and pie.

It was not long ago that all the "success" magazines were pointing to the Pittsburg millionaires as examples to the youth of the land.

With 10,000 doctors in convention in Boston next summer, the rest of the country ought to have a good opportunity to get well.—Boston Globe.

It is a pity that the great romancers of the sea did not live in a generation which affords such thrilling material as the log of the dry dock Dewey.

A Minnesota man says he has discovered the cause of the aurora borealis. But what bearing will this have on the price of coal this year?

Much to the surprise of everybody, some of the phenomenal ball players added to the leading nines as marvelous discoveries will probably make good.

Cheer up, mister! The president of the Dressmakers' National Protective Association says that women's dress will be less expensive this year than ever before.

The Japanese, says one of their statesmen, should adopt chairs and develop their legs. Well, short legs did not prevent them from "getting there" in the late war.

Portia, as quoted by the editor of a kind of society paper, is made to say: "How far that little scandal throws his beams! So shines a baad in this haughty world."

News comes from the east that the seventeen-year locusts will devastate the land this year. How many times in the course of a decade do the seventeen-year locusts come, anyhow?

As the last suffragist was detached from the doorknob and put into the police wagon, the premier of the great British Empire crawled out from under his bed and sighed a sigh of relief.

An actor has become a soldier in order to escape the adulation of matinee girls. We know several actors who should be driven from the stage with a club instead of soft glances.

Dr. Wiley, the government chemist, has shown that he can make a glass of Scotch whiskey in five minutes without the aid of Scotland, barley or a charred keg. Yet this man is not a millionaire.

The average woman can tell you how the table was fixed, down to the relative positions of the salt spoons, but cannot tell you all there was to eat at a banquet. The average man's remembrance ends with the list of wines.

The recent mine disaster in France, which caused the death of 1,000 men, is said to have been due to the greed of the mine owners, who refused to provide proper safeguards. Greed works out in about the same way the world over.

The Jamestown exposition will have a tower exceeding in altitude the Eiffel structure, and carrying upward of 10,000 incandescent lights, which will be visible for miles at sea at night. Nevertheless, most people probably would rather go to Paris.

Andrew Carnegie declares that wealth lessens rather than increases human happiness, and adds: "Millionaires who laugh are rare." Nevertheless, most of us would be willing to be millionaires for a while, even at the risk of being always sober.

What's a Turbine Engine?

This Marvellous New Plan for Driving Great Steamships across the Ocean is Like a Series of Pinwheels on a Shaft with Blades to Direct the Current — using Steam instead of Air.

Every schoolboy knows what a pinwheel is and how by blowing he can spin, yet there are few educated men outside the ranks of engineers who have any but the vaguest idea of what a turbine is. Therefore, it may astonish many people to know that a turbine is nothing but a series of pinwheels, one behind the other, fixed to a shaft which turns with them. For the breath with which the boy blows the paper pinwheel a jet of steam is substituted, and fixed to the inside of the cylinder in which the pinwheels revolve is a series of stationary blades projecting into the space between each wheel and set at such an angle that they will deflect the stream of steam to strike the pinwheels at the angle which will give the most force.

There is the simplest description of a turbine ever written. W. Owen Williams, member of the Institution of Engineers and Shipbuilders in Scotland, and a famous naval architect, in the introduction to his book on turbine steamers:

"The Parsons turbine consists of a cylindrical case with numerous rings of inwardly projecting blades. Within this cylinder, which is of variable internal diameter, is a shaft or spindle, and on this spindle are mounted blades. The diameter of the spindle is less than the internal diameter of the cylinder, and thus an annular space is left between the two. This space is occupied by the blades, and it is through these the steam flows. The steam enters the cylinder by means of an annular port at the forward end; it meets a ring of fixed guide blades which deflects it so that it strikes the adjoining ring of moving blades at such an angle that it exerts on them a rotary impulse. When the steam leaves these blades it has naturally been deflected. The second ring of fixed blades is therefore interposed and these direct the steam on to the second ring of rotating blades. The same thing occurs with succeeding rings of guide and moving blades until the steam escapes at the exhaust passage."

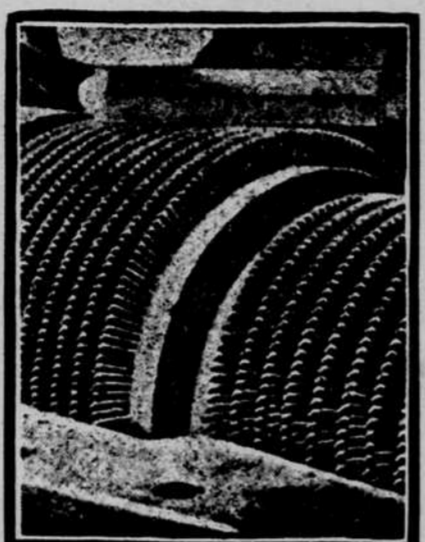
Any boy of average intelligence can make a turbine that will run a good-sized boat, but unless he has had some experience in the use of tools and solder he will do well to employ a tinsmith to help him. The model turbine illustrated here was made of tin, and the picture shows the principle upon which it works, the upper half of the cylinder having been removed.

This little machine is exactly the same in principle as that which drives the giant Cunard steamer Carmania across the Atlantic. But these differences must be noted: Where the model has only five rings of eight blades each the turbine of a steamer has perhaps a hundred rings, each composed of many hundreds of blades, as may be seen in the upper picture; and the stationary blades on the inside of

Solder these upon the shaft, spaced evenly. This is the spindle of the turbine.

Have a tinsmith cut and bend two pieces of tin three and three-quarter inches long and of such width that when soldered together they will form a cylinder one and one-eighth inches in diameter. Place your spindle with its blades in these half-cylinders and with a pencil mark a line exactly in the middle between each ring of blades. Upon these lines must be soldered the stationary blades.

The easiest way to make these blades is to cut strips of tin about one-half inch in diameter and in length to fit the inside of each of your half cylinders; before bending these, cut them into teeth, shaped like the teeth of a saw; with a pair of pliers bend these teeth back, being careful that they point in the direction opposite to the blades on



Shaft of Real Turbine Showing the Blades.

the shaft. Then solder these strips of teeth upon your half cylinders along the lines drawn with your pencil.

A cap for each end of the cylinder must be made of tin bored in the center for the ends of the shaft, and having two one-eighth inch holes cut in each, opposite to each other, those on the fore end to receive the steam pipes and those at the rear the exhaust.

Before soldering the two halves of the cylinder together and the caps on each end place the spindle in position, see that its blades do not engage the stationary teeth and that the latter point in the direction opposite to the former.

You may find it necessary to solder a tiny washer or two at one end or the other to prevent the shaft from slipping back and forth and the teeth from catching, but if the tin has been carefully cut the square part of the shaft should just touch the inside

second circle of blades upon the shaft at the right angle and so on, until the steam has done its work upon each of the five "pinwheels" and it flies out at the two exhaust holes.

You can mount a fly-wheel or a screw propeller upon the rear end of your shaft and you will be astonished at the speed with which it revolves.

A boy who has been through a good manual training school will be able to make a turbine of brass, which will be more serviceable than that of tin, but he should file out his blades, both the stationary and moving ones, and make them much more numerous and of much smaller size than it is possible to make of tin. It is not necessary to go into the details of such a turbine, for any boy who has the mechanical skill to make one will be able to discover how.

On an ocean steamer—and there are now many operated by turbines, the new Allan liners, the boats that cross the English channel and several warships and yachts, besides the giant Carmania—the spindle of the turbine gradually increases in size, to make better use of the expansion of the steam, and on many three turbines are used, one operated by high pressure steam, one intermediate and one low pressure.

The turbine is really very simple, for after all it is nothing but a series of pinwheels on a shaft.

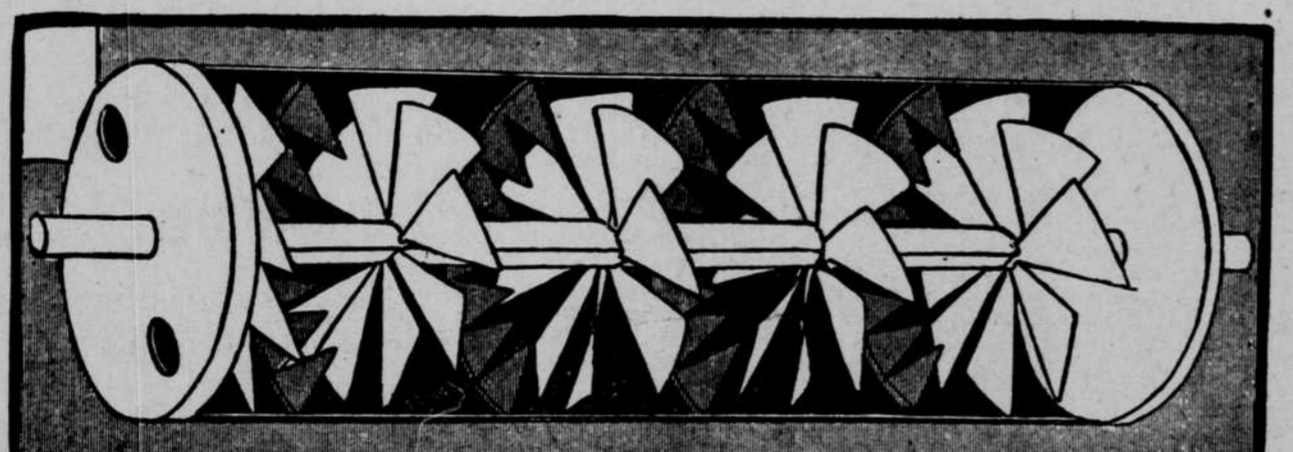
VAST PRODUCTIVITY OF CHINA.

One Fact That Has Greatly Impressed Sir Ian Hamilton.

One of the impressions which Sir Ian Hamilton of the British army obtained while accompanying the Japanese army in Manchuria and which he describes in his "Scrap Book of a Staff Officer" is the tremendous productive power of the Chinese. He says that he never saw anywhere in the world men work more industriously and in some respects more intelligently, and this upon a basis of compensation infinitesimally small when compared with that demanded in the western world. He entirely supports the contention of the labor leaders of the United States that Chinese labor must be excluded, because he affirms that if it were permitted to enter into competition with the ordinary labor of America it could not fail to acquire an ascendancy over it, not on account of degraded habits and methods of living, but simply because the Chinese put their shoulder to the wheel of work with a determination and persistency which workmen elsewhere do not exhibit.—Boston Herald.

Civil Above Military Rule.

The English public will probably await with interest the result of the action of John Morley, secretary of state for India, who has just indicated his purpose to recognize the supremacy of the civil government in matters relating to the conduct of affairs in India, even including military affairs. The clash between Lord Curzon and Gen. Lord Kitchener over exactly this point was decided by the Balfour ministry in favor of the latter. Mr. Morley's purpose may bring about a resignation of Lord Kitchener, just as Mr. Balfour's decision brought about the resignation of Lord Curzon, and just how the English peo-



DRAWN FROM TOY MODEL OF TURBINE SHOWING PRINCIPLE OF MOVABLE AND STATIONARY BLADES. GRAY BLADES STATIONARY WHITE BLADES—REVOLVING

ple will receive this turning down of one of their great military heroes is problematical.—Boston Herald.

High Praise for Tobacco.

At the University club banquet in Washington a few nights ago they gave "Uncle Joe" Cannon a cigar three feet long. It may or may not have been made of tobacco.

Representative Longworth, returning to his duties in the House after his honeymoon, brought for Uncle Joe a cigar made of the best Havana tobacco and about eighteen inches long.

Uncle Joe took it, smelled of it, turned it over and over, and caressed it lovingly. "By gum, Nick," he said, "it looks good enough to put cream on and eat."

RELIC OFFERED TO SCOTLAND.

Seal of Robert Burns Bequeathed by Its Late Owner.

A curious bequest, which will interest all Scotchmen, is conveyed in the will of Mrs. Martha Burns Thomas, a great granddaughter of Scotland's national bard, Robert Burns, which was read recently. The bequest was as follows: "I give the Poet's, Robert Burns, my great-grandfather's, original seal, chained in bog oak casket, as exhibited in the Burns Exhibition, to the Museum of the Burns Monument at Ayr on condition that the sum of £100 be paid yearly for ten years to my cousin, Robert Burns Hutchinson, of British Columbia, great-grandson of the Poet Burns, as I value the Poet's seal at one thousand pounds, and I wish to secure it for Scotland."

Prize Flying Machine.

Santos-Dumont has constructed a flying machine which he expects to win the Deutsch-Archdeacon \$10,000 prize for machines heavier than the air. This new machine is to be a "helicopter," or screw flyer, an apparatus which will raise, support and propel itself through the air solely by the power of horizontal and vertical propellers.

A Farce.

Bacon—"I see they are playing a piece called 'The Duel' in New York. Do you know what it is like?" Egbert—"No; but if it represents one of those French duels I guess it's a farce."

BASE BALL

National League News.

Pitcher Jake Weimer has at last signed a Cincinnati contract.

The Brooklyn club has sold shortstop Frank to the Toledo club.

The Brooklyn club has sold outfielder Dobbis to the Kansas City club.

Infielder Harry Arndt of St. Louis, has been coaching the Notre Dame team.

"Pink" Hawley will manage a team in the Wisconsin State League this season.

The New York club has turned infielder Clyde Robinson back to the Milwaukee club.

Fred Tenney is temporarily assisting pitcher Joe Harris to coach the Tufts College team.

Pitcher Mike Lynch has been at Boston University all winter studying like a hope-to-be professor.

Outfielder Fred Houtz of the Pacific Coast League, has gone to Texas for a trial with the Cardinals.

Outfielder Johnny Siegel of the Reds, has been running a paying bowling alley at Urbana, Ohio, all winter.

Catcher Mike Grady has been re-engaged by the St. Louis club at Manager McCloskey's urgent entreaty.

During the week third baseman Strobel, catcher O'Neil and pitcher Pfeiffer signed Boston contracts.

Catcher Charley Street, late of Cincinnati, is coaching the Condon Training School team at Huntsville, Ala.

Mike Donlin's younger brother, Joseph, has signed to play with the Whitehorns of the Chicago City League.

Pitcher Briggs, transferred by Chicago to Brooklyn, threatens to hurdle to the outlaws unless Brooklyn raises the ante.

Pitcher Frank Ferguson of Stockton, Cal., refuses to answer any of the letters that the Cincinnati club has sent him.

The Cincinnati Reds on Saturday started for Marlin Springs, Texas, where they will do their preliminary spring work.

The St. Louis club has released

team, has sold all of the season tickets that he had printed and there is a demand for more.

Manager McDermott has received the signed contract of "Cy" Swanson. The latter is weaving worsteds and yarns at the mill and grocery at Squeevillage, R. I.

George Henry of Lynn, one of the veteran outfielders of this league and a member of the Nashua team last year, has been appointed a New England league umpire. The league's official staff will consist of John Stafford, John O'Brien, F. J. Sullivan and George Henry.

John Murphy of Cambridge, who pitched great ball for the Institutes of Cambridge last season, has been signed by Fred Lake for the Lowell club. Last spring Lake gave him a try-out, but had an abundance of pitchers. Lake thinks Murphy a very promising boy.

Manager S. D. Flanagan of the Manchester team, has received notice from Secretary Farrell of the National association of minor leagues that Frank J. Eustace has been awarded to Manchester. The Haverhill club was also negotiating for the services of the player, but Manchester was the first to file acceptance of terms.

The fact that Jimmy Collins is associated with Jesse Burkett in the Worcester team, recalls to mind that Frank Selee was once connected with a Worcester venture. Walter Burnham, Malachi Kittredge, Jim Cudworth, now prospering in Lowell, and Frank Leonard, now in Lynn, have all managed clubs in Worcester; also C. A. Marston of Fall River.

American Association.

Tom Murphy, the best ground-keeper Toledo ever had, has resigned and left for his home in Indianapolis. His successor is William Rogers.

The majority of players on the Columbus (O.) team this year have done time in the big leagues. There are comparatively few youngsters in the aggregation.



In M. W. Fitzgerald, Manager McGraw of the Giants believes he has picked up a catcher who will become a jewel. Fitz, whose home is in Albany, played baseball for the first time on the Sharon independent team. Several times during last season young Fitzgerald was recommended strongly to McGraw by a personal friend and those recommendations

were so much in the lad's favor that McGraw finally determined to give him a chance, and signed him for the Giants for 1906. Fitzgerald is 23 years old, 5 feet 11 inches tall and weighs 180 pounds. He is active, rugged and strong, and while he has not had any major league experience, Johnny McGraw hopes to make of him a first-class alternate to Bresnahan and Bowerman.

American League Notes.

Second baseman Gus Dundon has resigned with Chicago.

Detroit's crack southpaw pitcher, Ed Killian, has at last come to terms.

Pitcher Chesbro and catcher McGuire last week re-signed with New York.

Frank Kitson has changed his mind about quitting the game and will sign with Washington.

Umpire O'Loughlin and wife have returned to Rochester, N. Y., from their bridal tour of the Pacific coast.

Manager Stahl has definitely decided to play Charley Hickman in Washington's left field in Huelmsman's place.

The Washington club, as a corporation, has presented Manager Jake Stahl with a handsome and costly silver tea set as a wedding gift.

Billy Lush, the Yale baseball coach, probably will be with the Cleveland club after July 1, when he is through with the collegians.

Catcher Lou Criger, now at Hot Springs, is reported as being but a shadow of his former self. He suffers from inter-costal neuralgia.

Mr. Somers of the Cleveland club, complains that since the bringing out of Joss the Cleveland team has not developed one star pitcher.

Pitcher Townsend of the Cleveland club is dissatisfied with the salary offered him and, while he will go to Hot Springs, will not sign until he gets what he wants.

George Rohe has signed with the White Sox for the coming season. That would make it appear as though the Cincinnati boy would be with Comiskey's team for a while at least.

The veteran catcher, Charley Farrell, last with Boston, announces her permanent retirement, as he has entered a partnership with Frank W. Leary in the management of a hotel at Marlboro, Mass.

New England League.

Haverhill wants to trade pitcher Connelly for Al Weddige. Manager McDermott is thinking it over.

Manager Sayer of the Haverhills, has signed Fred Gibbs of Merrimack, who pitched last season for the Biddeford (Me.) nine.

Jesse Burkett of the Worcester

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It is intimated that Kansas City will have a new ball park. The town is to have a new Union depot and the chosen site isn't far away from the present ball lot.

President Grillo of Toledo, reports that Chairman Herrmann, of the National Commission, has ruled that under the National Agreement of the American Association must throw out the Victor ball and play with either the Spalding or Reach ball. President Havenor of Milwaukee, says that he will fight any commission attempt to coerce the American Association in this ball matter. This question thus adds fuel to the faction fight.

Western League.

Sioux City may take catcher Charley Hawkins of Rochester, on trial.

Outfielder Nate Randall has signed with Denver.

The Des Moines club has transferred Herman Long to Toronto in exchange for cash and second baseman George Magoon.

Catcher Freese of Omaha, threatens to jump to an independent team owing to a row with Manager Rourke over advance money.

Condensed Dispatches.

The Newark club has sold second baseman Loudenslager to Rochester.

The Nashville club has signed third baseman Ernest Moser of Buffalo, New York.

The St. Louis American Club has transferred pitcher P. J. Hynes to Milwaukee.

First baseman Conn, of Providence, and first baseman Arthur Brown of Newark, have signed respectively with the York and Johnstown outlaw clubs.

Pitcher John Powell and catcher Jack O'Connor have signed with the St. Louis American League club.

The veteran infielder, Jimmy Canavan, has been appointed manager of the New Bedford club, recently sold to a local syndicate by Fred Doo.

Infielders Lindsay, O'Leary and Shafer have declined to sign at the Detroit club's terms, and O'Leary and Shafer have refused to go south with the team.

Louis B. McNanny, a player well known throughout Indiana independent circles, died at Indianapolis, March 1, from tetanus, due to stepping on a rusty nail.

Trust to Nature.

A great many Americans, both men and women, are thin, pale and puny, with poor circulation, because they have ill-treated their stomachs by hasty eating or too much eating by consuming alcoholic beverages, or by too close confinement to home, office or factory, and in consequence the stomach must be treated in a natural way before they can rectify their earlier mistakes. The muscles in many such people, in fact in every weary, thin and thin-blooded person, do their work with great difficulty. As a result, fatigue comes early, is extreme and lasts long. The demand for nutritive aid is ahead of the supply. To insure perfect health every tissue, muscle, nerve and muscle should take from the blood certain materials and return to it certain others. It is necessary to prepare the stomach for the work of taking up from the food what is necessary to make good, rich, red blood. We must go to Nature for the remedy. There were certain roots known to the Indians of this country before the advent of the whites which later came to the knowledge of the settlers and which are now growing rapidly in professional favor for the cure of too much eating, indigestion, nervousness. These are found to be safe and yet certain in their cleansing and invigorating effect upon the stomach, liver and blood. These roots when extracted with glycerine as a solvent make the most reliable and efficient stomach tonic and liver invigorator, when combined in just the right proportions, as in Dr. Pierce's Golden Medical Discovery. Where there is bankrupt vitality—such as nervous exhaustion, bad nutrition—and thin blood, the body acquires vigor and the nerves, blood and all the tissues feel the favorable effect of this sovereign remedy. Although some physicians have been aware of the medicinal value of the above mentioned plants, yet few have used pure glycerine as a solvent and usually the doctors' prescriptions called for the ingredients in varying amounts, with alcohol. The "Golden Medical Discovery" is a scientific preparation compounded of the glyceric extracts of the above mentioned vegetable ingredients and contains no alcohol or harmful habit-forming drugs.

CURES CONSTIPATION

Relief that comes from the use of pills or other cathartics is better than suffering from the results of constipation, but relief and cure combined may be had at the same price and more promptly, for

Lane's Family Medicine

is a cure for constipation, and the headache, backache, sideache and general debility that come from constipation stop when the bowels do their proper work. Sold by all dealers at 25c. and 50c.

REFLECTIONS OF A BACHELOR.

Children will never disobey you if you never give them any orders.

A man would like to go to business early if it caused scandal in the church.

If money could stick to one's descendants the way red hair does, everybody would be rich.

When a man wakes up fifteen minutes before it is time to get up he swears he never slept a wink all night.

Generally you can tell when a woman is a mother by the way she doesn't think any children she meets are pretty.—New York Press.

Two swelled heads are not better than one.

Don't lose your head if ambitious to get ahead.

No, Alonzo, a woman isn't necessarily an artist because she paints.

With some men an emergency is but another name for an opportunity.

Seeing America.

The Passenger Department of the Chicago & North-Western Railway announces that as a means of increasing the efficiency of the "Seeing America First" movement, round trip tickets will be sold over that line to all Pacific Coast points, good on their fast limited trains, at the rate of \$75.00 from Chicago, daily June 1st to Sept. 15th.

Every facility is being provided for in the way of stopovers and other conveniences, and the tourist movement to the Pacific coast, for the coming season promises to show an increase of many thousand people over that of any season ever known.

THOUGHTS ON EDUCATION.

Tuskegee is to receive \$500,000 from the Dotger estate of South Orange, N. J.

Fifty-five million volumes in public and school libraries of the United States.

A well-equipped and well-regulated playground is second only to a good school.

Indiana is the only state whose Congressional delegation has only college-bred men.

Nearly forty per cent of the students at the Mt. Pleasant, Mich., normal school are men.

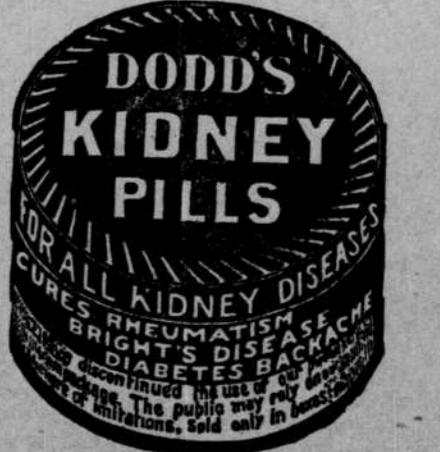
In 1900 there were 56 per cent of the Harvard graduates living, now there are 60 per cent.

Pennsylvania has but 187 high schools with a four-year's course. There should be 1,000.

The school nurse is no more a fad than a family physician when typhoid fever invades the home.

Other things being equal, the fellow who learns most from his mistakes is the most successful.

Every state should have an inspector of high schools, but he should be a man equal to the duties.—Journal of Education.



PIT & FITLESS SCALES. For steel and wood frames, \$25 and up. We use before you buy. We save you money. Also Pumps and Wind Mills. BECKMAN BROS., Des Moines, Iowa.