OOD SLEEPER.

**ion which will Save Ameri-
sts---Straw to Take the Place**

man, with sharp features and ful air, sat in a small study, d gravely at a brown object t his feet.

paper railroad cross tie," he

porter lifted it with some It was of very close fibre, ghly polished that it resem- wood. Its inventor tapped s nail and said:

sn't look much like paper,

ms more like iron. Is it pos- it is made of paper?"

es; almost anything can now of paper. A paper ball can red so solid that nothing will but an iron tool. Car wheels made of paper. Its strength shing. You can suspend 339 rom a Bank of England note ill not part. Bath tubs, pots, nives, forks, cooking stoves, presses, steam presses, steam and chimneys are made of wadays, and there is abso- o limit to the uses to which e put.

paper cross ties ever been

yet. The cross tie is my in-

did you happen to think of

, I didn't happen to think y. I started out to invent a e for the wooden cross tie or and I kept steadily at it un- s successful. My attention called to the matter by the raised by the newspapers the destruction of our forests. ort of the Forestry Congress beyond a shadow of doubt ore many years it would be ble to supply the demand for sleepers. Can you believe arly seventy million railroad e used every year? That is to build a solid corduroy road the world. More than 10,000 f new railroad were built last The life of a wooden tie if only rs, and constant repairs are ry. To supply the demand great railroad system of the it is necessary to chop down ndred thousand acres of for- ear! It takes a hundred years trees to maturity, and we cut millions and millions of them year. How long can it last? are the figures presented by tisticians of the Forestry Con- and adopted by that body.

y taught me a wholesome les- he inventor continued, smiling and drumming on the tie. improved it. I made up my that I would find some substi- r wood. Railroad men all over ntry have been trying to do r years. They have tried cross granite, iron, steel, and glass. ures. Besides being very ex- e, they were too rigid, and d the rolling stock all to pieces. ils could not be fastened readi- her, so they were all given up. while wooden ties were constant- ting higher in price, and I was to hit upon a substitute. I re- ered that one morning I con what I thought at the time brilliant idea. It had been my —I was living in a small town Massachusetts—to walk out on railroad track while worrying the problem, and I had noticed the wooden ties, though decayed ends, were apparently sound ard in the middle. My scheme o construct a machine that would the ties in two in the middle. I proposed to turn the two sec- of the tie about, so that the l ends would be under the rails. nt to clamp the tie in the mid- ith a dog. Seems like rather a scheme, now, doesn't it? Well, ay after my conception of this I went out on the railroad with chet and chopped into the mid- f a number of the ties. I found one of them in an advanced of decay. The outside of the tie a sort of shell, and seemed solid ard. The sun had dried it off lly on the outside after it had wet, but the moisture had slowly d through the body of the tie rotted it away. I gave it up for me. I could think of nothing ble. I saw gangs of men who employed by the railroad com- es constantly repairing and put- in new ties. This was another ense to be added to the cost of short-lived wooden sleepers.

Then I thought of paper. There scores of mills in the country re paper, straw, prairie grass and er fibrous substances are converted straw board. The process is ple. The straw is reduced to a p and run out into boards. These w boards are sold all over the ntry as substitutes for wood. Myention utilizes straw board. The s tie is constructed of sheets or rs of paper or straw board, laid upon another, cemented and pressed into moulds. It makes a fect cross tie. It is practically er and fire proof, as it is manu- tured under 500 degrees of heat. mospheric changes have no effect it. It can be made as cheap as od at the present time, and will t at least twenty-five years. One er tie will outwear five wooden s, and will render better service, cause it does not rot and there is danger of spreading rails. The cident to the Long Branch train t year was due, according to offi- l investigation, to spreading rails. e wooden ties had decayed so that the spikes that held the rails were loose."

"Will the paper tie take a spike? It seems like iron."

"It will take a spike as readily as wood, and hang to it, too. There is plenty of 'give' to the paper tie, so that the rolling stock of a railroad will not suffer. They are of uniform size, and weigh a little more than wood."

"Suppose straw board goes up in value?"

"It doesn't make any difference. The tie can be made of any fibrous substance capable of being reduced to pulp—prairie grass, for instance. But how can the straw give out? It takes a hundred years to grow a tree, while straw grows every year. In the Northwest they burn straw in vast quantities every year so as to get it out of the way. The paper tie must be adopted before long from sheer necessity. We can't go on chopping down trees forever. The paper tie deadens sound. Col. F. K. Hain will shortly introduce it on the elevated road. It's a pretty good thing, I guess, eh?" asked the inventor, and again he smiled, and drummed on the tie with his finger nails.

MINERAL DISCOVERIES IN TEXAS.

The Galveston *News* has the following from San Antonia: The party of ore hunters to the Chinati, Carrizo and Diabolo Mountains, who left here on the 28th of April last, returned last night, elated with the wealth of the mineral lands of the State. The party consisted of Gen. Charles Forman, general superintendent of the famous Comstock mines, of Virginia City, Nev.; Col. H. B. Andrews, vice-president and land commissioner of the Galveston, Harrisburg and San Antonia Railway; Lieut. John R. Bullis, United States Army; Mr. C. Corner, civil engineer and surveyor; Mr. Jackson, an Englishman, and Gen. Russ, president of the Pecos and Rio Grande Mining Company, who joined the party from Dallas, over the Texas and Pacific Railway. A special car was furnished the prospectors by Mr. Town, of the Southern Pacific.

At Marfa, twenty-three miles southwest of Fort Davis, the party found an attachment of six mounted soldiers, with three extra saddle horses, an ambulance and four mules, a wagon with six mules and four pack-mules, with twenty days rations, furnished by Gen. Vincent, as per arrangement with Col. Andrews. Fifty miles from the station the prospectors struck the mountains, which seemed to the ore hunters to be all metal—copper, iron, sulphate of silver and lead being found in abundance. They report as a noticeable fact that the country is covered with rich gramma grass to the topmost peaks, which are capped with snow all the winter. The party prospected the Chinati, Carrizo and Diabolo Mountains in the order named. At the close of each day they returned to camp loaded with rich specimens of silver ore. There are many private persons who have located some choice mineral places along the Chinati range, but most of the country is located by the Sunset and Texas and Pacific Railways. The largest camp in that section is operated by Mr. Noga, who is working the mines in the interest of a California company. He has spent $16,000 upon having it tunneled 600 feet into the hill, and claims to have 100,000 tons of ore ready to be shipped or worked up there, as the company best choose. The ore will average over sixty ounces to the ton, some of the best ore yielding nearly $1200 per ton. The prospectors report better and richer leads close by this mine. Gen. Forman predicts that rich mines of paying quality will be worked in the near future, and at no distant day these mountains will be alive with miners and mining camps. Good cannel coal has been found eight miles south of Carrizo Pass, in the Eagle Springs Mountains, and great quantities have been taken out and piled for shipment. The lead is from seven to eight feet thick, in a red stone foundation in the heart of the mountains.

THE REASON WHY HE RAN AWAY WITH THREE SISTERS.

A man in Texas was arrested for running away with three sisters—triplets—and was placed on trial.

"You are a nice fellow," said the Judge, as a preliminary.

"I know it, Jedge; leastwise that's what the gals said."

"What do you mean by running away with three women, and ruining the peace of a happy family?"

"I meant to marry 'em, Jedge."

"Insatiate monster! would not one suffice?"

"Put it a leetle plainer, Jedge."

"Wouldn't one have been enough?"

"It mought look that ere way to you, Jedge, and did to me at fust, but you see, there was three of 'em, kind of one set, like."

"That doesn't count in law."

"Mebbe it don't, Jedge, but then gals and me talked it all over, and they was mighty attached to each other, and said it was a pity for me to take one of them triplets and break the set, so we jest concluded to hang together, and I'll be durned if we wasn't hangin' right out for Utah, and no mistake."

"The law does not recognize any such excuse."

"All right, ole man; go ahead. There was three agin one, and if I have to suffer I kin stand it; but I want to say right here, Jedge, if any fool cuss breaks that set while I'm sufferin,' I'll break his durned skull as shore as I'm a dyin' sinner, and you can bet a rawhide on it."

The case was continued.

Human nature is so constituted that all see and judge better in the affairs of others than in their own.

STRAY PARAGRAPHS.

Be alive while you live, and not dead until you die.

Better to have loved a short girl than never have loved a tall.

Most people are like eggs—too full of themselves to hold anything else.

Why is a man like a pin? Because he has got a head and comes to the point.

Beauty in a woman is like the flowers in Spring: but, virtue is like the stars in heaven.

Do the best you can, and God and your own conscience will approve, though man condemn.

"What," says an inquisitive young lady, "is the most popular color for a bride?" We should prefer a white one.

China and Japan buy our dried apples freely. Thus does American industry help to swell the population of the Orient.

At Barnum's a kind-hearted man patted a speckled hyena on the head. Next time he will have to use the other hand.

If you can say nothing good of any one say nothing at all, for in friendship as in love we are often happier in our ignorance than in our knowledge.

The greatness of a victory may be estimated from the severity of the conflict. A man has never to struggle more desperately than to overcome self.

Home is next to Heaven, and the home that is well ordered, comely, pure and bright is thus heavenly by the agency of woman's heart and woman's hand.

A great deal depends upon a man's courage when he is slandered and traduced. Weak men are crushed by detraction, but the brave hold on and succeed.

The human race is divided into two classes—those who go ahead and do something, and those who sit still and inquire, "Why wasn't it done the other way?"

Do some good deed every day, and thus climb one round higher up the ladder whose foot rests upon the earth, and whose topmost round reaches the stars.

Under the laws of Illinois, what a person sees through the keyhole cannot be accepted as evidence in court; but no sewing society in the country would object to such testimony.

Times of general calamity and confusion have been productive of the greatest minds. The purest ore comes from the hottest furnace; the brightest flash from the darkest cloud.

The days are made on a loom whereof the warp and woof are past and future time. They are majestically dressed, as if every god brought a thread of skyey web. This miracle is hurled into every beggar's hand.

A room without pictures is like a room without windows. Pictures are loop-holes of escape to the soul leading to other scenes and other spheres. Pictures are consolers of loneliness; they are books; they are histories and sermons, which we can read without turning the leaves.

A Detroit editor has been mulcted in $20,000 in a libel suit. This may deprive him of a few comforts during the Summer. In order to economize to pay the fine, he may be compelled to forego his contemplated three weeks' sojourn at Saratoga and make a trip around the world instead.

"I thought," remarked the victim, after the dentist had dragged him around the room several times, "I thought you advertised to extract teeth without pain?" "So I do, sir," replies the operator, blandly; "it doesn't hurt me at all to yank 'em!"

"Henceforth we meet as strangers!" exclaimed Brown in a fit of anger. "Thank you, Brown, my dear fellow!" gushed Fogg effusively; "you always did treat strangers better than your friends and acquaintances, and you make me exceedingly happy that I am henceforth to share your distinguished consideration."

A father has been complaining to a friend of the family of the conduct of his prodigal son. "You ought to reason with him seriously," says the friend of the family. "So I do! So I have!" says the father, in despair, "but the young scoundrel will listen to nobody who isn't a fool like himself. I want you to go and talk with him."

A new rival brass band was hired to play at a funeral of a Connecticut deacon. They were playing a slow and solemn dirge at the grave, when suddenly the trumbone shot out a blast that startled the hearse horses and broke up the whole procession. The leader, turning upon him fiercely, asked him what in the name of all the hot places at once he was doing that for. He answered with a smile: "Gosh, I thought it was a note, and it was a hossfly; but I played it.

The season has now arrived when callow countrymen call out to the bicyclist under the impression that he is a patent scissors grinder.

Good correspondents are particular in dotting their i's and crossing their t's, but the great aim of the defaulting cashier is to cross their c's.

When the Sunday-school superintendent asked his class why Moses smote the rock, a little fellow sung out. "I reckin he missed the feller he aimed at."

When a young man attempts to court a fair damsel, and she tells him she has a "supreme contempt" for him, should she be arrested for "contempt of court?"

Bismarck was too hasty when he growled at American sausage, thinking he was getting in licks against American pork. It was enough to make the dogs laugh.

LYDIA E. PINKHAM'S
VEGETABLE COMPOUND,
Is a Positive Cure

For all those Painful Complaints and Weaknesses so common to our best female population.

A Medicine for Woman. Invented by a Woman. Prepared by a Woman.

The Greatest Radical Discovery Since the Dawn of History.

It revives the drooping spirits, invigorates and harmonizes the organic functions, gives elasticity and firmness to the step, restores the natural lustre to the eye, and plants on the pale cheek of woman the fresh roses of life's spring and early summer time.

Physicians Use it and Prescribe it Freely

It removes faintness, flatulency, destroys all craving for stimulant, and relieves weakness of the stomach. That feeling of bearing down, causing pain, weight and backache, is always permanently cured by its use. **For the cure of Kidney Complaints of either sex this Compound is unsurpassed.**

LYDIA E. PINKHAM'S BLOOD PURIFIER will eradicate every vestige of Humors from the Blood, and give tone and strength to the system, of man woman or child. Insist on having it.

Both the Compound and Blood Purifier are prepared at 233 and 235 Western Avenue, Lynn, Mass. Price of either, $1. Six bottles for $5. Sent by mail in the form of pills, or of lozenges, on receipt of price, $1 per box for either. Mrs. Pinkham freely answers all letters of inquiry. Enclose 3ct. stamp. Send for pamphlet.

No family should be without LYDIA E. PINKHAM'S LIVER PILLS. They cure constipation, biliousness, and torpidity of the liver. 25 cents per box.

Sold by all Druggists. (1)

NEW ENGLAND
BAKING POWDER!
Is a Home Production.

Its manufacture gives employment to California boys and girls, California tinsmiths, box makers and California printers. **It is made from California Refined Cream of Tartar, scientifically combined with pure Bi-Carb. Soda and nothing else.**

New England Baking Powder
Is always found to be exactly as represented.

It is the best Baking Powder that money can buy, and a single practical trial will prove it.

Compare what is said of the **NEW ENGLAND BAKING POWDER** with the advertisements and reading notices of Eastern manufacturers, who claim their Baking Powders to be **absolutely pure**, and who spend money without limit in their exposures of rival manufacturers who adulterate with **alum**. How carefully they refrain from any mention of **ammonia** and **starch**, which they use themselves to reduce the manufacturing cost of their absolutely pure (?) productions!

If consumers find any difficulty in procuring **New England Baking Powder** from their regular grocer, by addressing a postal card to

Newton Bros. & Co., San Francisco,

They will be promptly advised where and by whom they may be supplied.

WAGONS ALL SIZES. Complete Stock. Send for Catalogue. **WAGONS**
A. W. Sanborn & Co
24 BEALE ST.,
SAN FRANCISCO, CAL.

P. F. C. SANDER,
Attorney and Counselor at Law,
207 SANSOME ST., SAN FRANCISCO, CAL.

Practices in all State and Federal Courts. Collections, Probate and Real Estate matters given special attention.

MAKE YOUR WIFE THAT PRESENT AND NOT WEAR OUT. **SOLD** by watchmakers. By mail 25c. Circulars free. J. S. BIRCH & Co., 35 Dey St., N. Y.

M & M **TEA! TEA!** COMET M

When ordering Tea, be sure to have one of the above justly celebrated marks, which have held their own for superiority of flavor for nearly 30 years. In fact, all the Teas imported by the firm of MACONDRAY & CO. excel in quality, flavor and purity, besides which you are sure of full weight, their aim being to retain their trade and good name.

HALL'S SARSAPARILLA YELLOW DOCK AND IODIDE OF POTASS

The Best Spring Medicine and Beautifier of the Complexion in Use. Cures Pimples, Boils, Neuralgia, Blotches, Scrofula, Gout, Rheumatic and Mercurial Pains, and all diseases arising from a disordered state of the Blood and Liver. Sold by all Druggists.

J. R. GATES & CO.
PROPRIETORS,
417 Sansome St.

SAMARITAN NERVINE NEVER FAILS. THE GREAT NERVE CONQUEROR

A SPECIFIC FOR Epilepsy, *Spasms*, Convulsions, *Falling Sickness*, St. Vitus Dance, *Alcoholism*, Opium Eating, Scrofula, *Kings Evil*, Ugly Blood Diseases, *Dyspepsia*, Nervousness, *Sick Headache*, Rheumatism, *Nervous Weakness*, Brain Worry, *Blood Sores*, Biliousness, *Costiveness*, Nervous Prostration, *Kidney Troubles and Irregularities*. $1.50.

Sample Testimonials.

"Samaritan Nervine is doing wonders." Dr. J. O. McLemoin, Alexander City, Ala.

"I feel it my duty to recommend it." Dr. D. F. Laughlin, Clyde, Kansas.

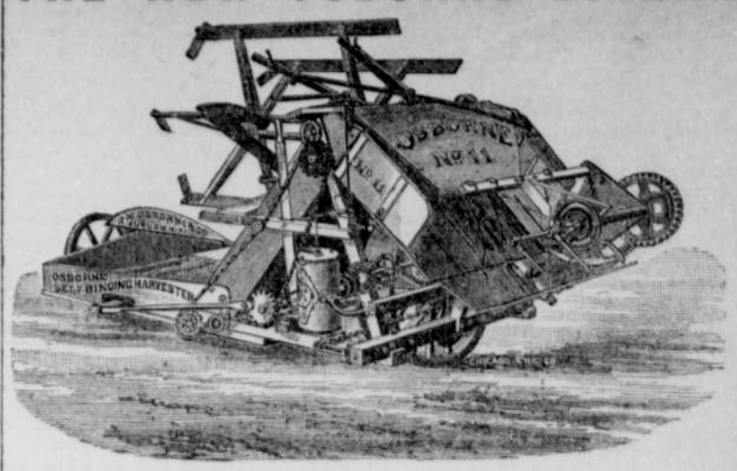
"It cured where physicians failed." Rev. J. A. Edie, Beaver, Pa.

Correspondence freely answered. Sold by all Druggists. (27)

THE DR. S. A. RICHMOND MED. CO., ST. JOSEPH, MO.
For testimonials and circulars send stamp.

$72 A WEEK. $12 a day at home easily made. Costly outfit free. Address TRUE & Co., Augusta, Maine

THE NEW OSBORNE BINDER.



Although our Self-Binding Harvester has proved itself all that can be desired, many o our agents have asked for a Binder with

COMPRESSORS and BUNDLE-DISCHARGER.

Our rule in business is to make what the farmers want, and we therefore offer the above machine to those who prefer this style of Binder with confidence that it will be found the BEST OF ITS CLASS. We have also the same Binder we have sold for five years on this Coast, and its work speaks for itself. Advertising space is expensive, and we prefer giving details by letter and invite correspondence from all who need a Self-Binder. We have agents in nearly every town, who will be glad to explain the merits of our machines, or we will do so upon receipt of letters asking for them.

The only Seven Foot Appleby Binder. It will work on Hilly Ground when a Header will not!

We have also the **Osborne Single Mowers, Combined Mowers and Reapers with Self-Rake and Single Self-Raking Reapers.**

Extras for all our machines in full supply can be had of our agents or of us. All machines fully warranted, and all defects cheerfully made good. Address,

D. M. OSBORNE & CO.,
33 Market Street, San Francisco.

THE
BEST CLOTHING
FOR MEN AND BOYS
AT
C. C. HASTINGS & CO.,
SAN FRANCISCO.
References: Everybody!

CALIFORNIA WIRE WORKS

A. S. HALLIDIE, President. HENRY L. DAVIS, Secretary.

California Wire Works,
SUCCESSORS TO
A. S. Hallidie, Robinson & Hallidie and California Wire Works Co., Manufacturers of and Dealers in

Wire, Wire Rope, Wire Goods, Brass, Copper and Iron Wire Cloth

Have Constantly on hand a full line of Flat and Round Wire Rope of Iron and Steel. Wire Work

Railings, Guards, Screens, Sieves, Shade Cloth, Bird Cages and Battery Screens,

THE SCUTT PATENT Four Pointed Barbed Fence Wire.

Licensed Under All Patents

Office and Salesrooms No. 6 California St., San Francisco.

KIDNEY-WORT
FOR THE PERMANENT CURE OF
CONSTIPATION.

No other disease is so prevalent in this country as Constipation, and no remedy has ever equalled the celebrated KIDNEY-WORT as a cure. Whatever the cause, however obstinate the case, this remedy will overcome it.

PILES. THIS distressing complaint is very apt to be complicated with constipation. Kidney-Wort strengthens the weakened parts and quickly cures all kinds of Piles even when physicians and medicines have before failed.

RHEUMATISM. For this it is a WONDERFUL CURE, as it is for ALL the painful diseases of the **Kidneys, Liver and Bowels.** It cleanses the system of the acrid poison that causes the dreadful suffering which only the victims of rheumatism can realize.

THOUSANDS OF CASES of the worst forms of this terrible disease have been quickly relieved, and in a short time **PERFECTLY CURED.**

It cleanses, Strengthens and gives New Life to all the important organs of the body. The natural action of the Kidneys is restored. The Liver is cleansed of all disease, and the Bowels move freely and healthfully.

It Acts at the same time on the KIDNEYS, LIVER AND BOWELS. SOLD by DRUGGISTS. $1. LIQUID or DRY. Dry can be sent by mail. WELLS, RICHARDSON & CO., Burlington, Vt. (37)

KIDNEY-WORT

$66 a week in your own town. Terms and $5 outfit free. Address H. HALLET & Co., Portland, Maine

JOE POHEIM,
THE TAILOR
—MAKES THE—
Best Fitting Clothes
In The State.

Business Suits to Order from - - -	$20 00
Pants " " " - - - -	5 00
Fine Dress Suits " " - - -	40 00

Prompt Attention, Honest Dealing and a Perfect Fit Guaranteed or no sale.

Rules for self-measurement, and Samples of Cloth Sent Free to any address, on application.

724 Market & 203 Montgomery St.
SAN FRANCISCO, CAL.

John Wigmore, HARDWOOD LUMBER.
CABINET WOODS and VENEERS,
Ship Timber, Locust Treenails, Deck Plugs, etc.
129-147 Spear St. and 26-28 Howard St.,
San Francisco, and 156 State St., Boston, Mass.
JOHN WIGMORE, Boston. A. A. WIGMORE, S. F.

S. F. N. U., First Series, No. 50

THE SUN Over a Million a Week!

THE SUN now has a circulation very much larger than that of any other American newspaper. Last year it printed 55,556,020 copies of its several editions. People of all conditions of life, and all ways of thinking, buy and read and like THE SUN. Subscription: DAILY (4 pages), by mail, **55c.** a month, or **$6.50** a year; SUNDAY (8 pages), **$1.20** per year; WEEKLY (8 pages), **$1** per year.
I. W. ENGLAND, Publisher, New York City.

50 VISITING CARDS, Bristol Board, 30c.; postage stamps taken. T. W. LOCKWOOD, Alameda, Cal.

TO PRINTERS!

Printers who are about to purchase new type, or printing material of any kind, should send for the new specimen book and the reduced price list just issued by Messrs. Palmer & Rey, the go-ahead type founders and press makers of San Francisco and Portland, Ogn. This firm has forged so far ahead of all its competitors that now it is the most complete printers' supply depot in the country to-day. Palmer & Rey's stock is not only very large and complete, but their type and material is of a high grade. *Their type is wonderful for perfect justification and beauty of finish.* The new Price List, just issued by Palmer & Rey, is a regular boon to the trade, as they can save at least 15 per cent. by buying from this house. The job fonts shown in Palmer & Rey's Specimen Book are the cheapest we have ever seen, and we don't see how the other Type Founderies of San Francisco, can sell at all to any printer who gets the new specimen book and price list of Messrs. Palmer & Rey. The Printers of Oregon and Washington Territory are now not dependent upon San Francisco for supplies, as Messrs. Palmer & Rey have just opened a branch warehouse at 87 Front street, Portland. They keep in stock there a complete assortment of Type, Presses and Material, and have shut out all competitors by selling in Portland at San Francisco rates. The printer who finds the need of a Patent outside, cannot do better than write to the SAN FRANCISCO NEWSPAPER UNION, Palmer & Rey proprietors, the sheets turned out by these gentlemen are superior to any thing got up in the United States. If you don't believe it, send for sample sheet and be convinced. Messrs. Palmer & Rey's address is 405 and 407 Sansome street, San Francisco, and 87 Front street Portland, Or.

WOODEN MANTELS
R. HERRING,
Manufacturer of
Fine Furniture, House, Bank and Office Fittings.
429 and 431 FOURTH St., San Francisco.
DESIGNS FURNISHED.

Is unfailing and infallible in curing Epileptic Fits, Spasms, Convulsions, St. Vitus Dance, Alcoholism, Opium Eating, Nervous debility, Scrofula and all Nervous and Blood diseases. To Clergymen, Lawyers, Literary men, Merchants, Bankers, Ladies and all whose sedentary employment causes Nervous Prostration, Irregularities of the blood, stomach, bowels or kindeys, or who require a nerve tonic, appetiser or stimulant, Samaritan Nervine is invaluable. Thousands proclaim it the most wonderful invigorant that ever sustained the sinking system. For sale by all Druggists. THE DR. S. A. RICHMOND MEDICAL CO., Sole Proprietors, St. Joseph, Mo.