western young lady his decision would have been just as difficult to make and his chances of blundering just as great. There is a great difference, but he is a very foolish man who will let it be known in whose favor he thinks

A western young lady is hardly as apt to sing the late operas, paint in half a dozen ways, play the banjo or do any of the dozen airy nothings which mark an "accomplished" girl. If she does any of them, however, she is more apt to do it well, and her whote life is marked by an earnestness entirely foreign to

the young lady of the east,

She does not seem so firmly convinced that marriage is the chief end of human existence. Her independence shows itself in her treat-ment of young gentlemen. If they like her she is satisfied, if not she is equally well satisfled. She makes little or no effort to be especially entertaining, but seems content to be judged just as she is, without the nid of studied superficial graces. Her costumes do not absorb as much of her attention, and consequently she is not apt to dress so fashion-ably. What she lacks in the butterfly quali-ties she may be safely said to make up in earnest womanliness

The same spirit of activity pervades the community. Holidays are not observed as carefully or celebrated as elaborately in the west as in the east. Especially is this true of the Fourth of July an i the Christmas holidays. days. A new church is built or a subscrip-tion raised to repair an old one in half the time and western people are as a rule much more regular in attending courch services.

There are two classes of people who cumber the earth. One consists of those who are out west, but continually and upon all occasions insist how much better everything is "in the east." The other, of those who are in the east, and who by their loudness and exaggerated independence continually herald the fact that they are "from the west." Which is the most objectionable is a conundrum.

G. W. GERWIG.

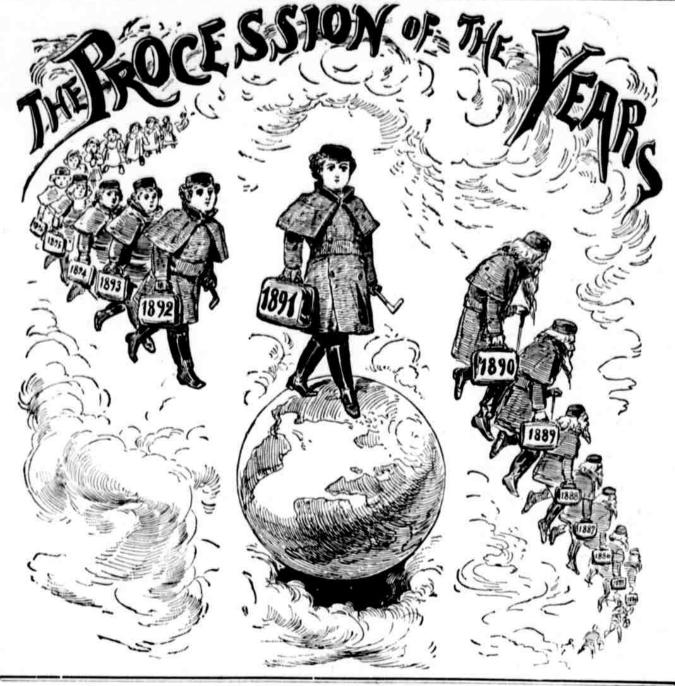
## A Scientific Discovery.



PROACHING the city of Lincoln from the west, an observ ing man will notice to the northwest the big packing house with a tall chimney

stream of thick. black smoke, and if the wind is favorable this cloud may be drawn out for a mile, like the tail of a sombre comet. Looking in the opposite direction he will see at the southwest the chimney of the hospital for insane, also vomiting a black cloud. Between these two points, ranged in a semi-circle perhaps five miles in length, is a large number of tac-tories, each with a smokestack and every smokestack with a long black streamer at the masthead. But all the factories of the Capital City cannot be seen from the west. Let the observing man climb to the top of the statehouse and he will see other tall smoking chimneys in every part of the city. He will see sooty clouds arising from many business blocks, and, in a smaller way, from bundreds

The ordinary man may see in all this only a common unavoidable nuisance. This soot, falling like fine black snow, soils his collars, cuffs and other linen. He sighs when be con-templates his laundry bill, but consoles himself with the thought that it means industrial activity and commercial prosperity for the city. That is about as far as the ordinary man thinks. But the observing man studies deeper. He reasons that the soot carried off the winds is a part of the fuel fed to the fires under the big boilers, and on investigation be discovers that it is largely composed of who examine it. Just think of the principle who examine it. Just think of the principle united in combustion, create heat. The conclusion then The draft draws the air in at the bottom of must be that if a part of the carbon flies out the stove, up through the fuel into the chimof the crimney fuel wasted. What percentage of the whole is that waste, do you ask? Who can tell! An authority on such matters says that in the fires under ordinary steam boilers not more than ien per cent. of the heating power of coal is utilized. In other words, ninetenths of the fuel is wasted for the want of proper treatment Where does it go? The coal is charred by the fire and the dust is carried up the chimney by the strong draft. The burning of the coal releases gasses which ought to produce heat, but they, too, fly up process of combustion. In the case of boilers the soot covers the flues, and, being a poor



causes of the loss of the heat power in coal. In ordinary stoves it is estimated that only one-fourth to one-half of the heat of the coal is utilized.

Any one who knows of the enormous amount of coal used may have a faint realization of the great waste. If some man could discover a method of preventing that waste what a wonderful saving it would be to the land of cold seasons. To state the matter in a more concrete form and bring it home to the reader, there are thousands of families in Lincoln that will spend \$50 for coal this winter and there are many that will use from \$100 to \$200 worth of fuel. Suppose improved stoves and furnaces were offered that would save a part of the wasted fuel and reduce the coal bill one-half. You would want to know all about them, wouldn't you? Well, this article proposes to tell you about a new discovery that will do that very thing Dr. J. T. Robbins of Newton, Iowa, has invented a down draft stove and the Lincoln Stove and Furnace Company has been incorporated to manufacture it. Thomas Ryan is president and A. C. Ziemer secretary and treasurer. They, with S. W. Burnham, Samuel McClay and George Downing, jr., are the directors. These gentlemen are level-headed business men and not likely to go into an enterprise in the draft of the chimney and scattered by of this kind without convincing evidence of its merit.

carbon. Being an intelligent man, be knows of the ordinary stove for a moment. The that it is the carbon of the coal and the oxy- pipe leaves the stove at the top and connects it with a chimney, making a strong draft. it is equivalent to so much ney. The loose carbon and light gasses are next percentage of the whole carried upward in the current and lost. The top of the stove is hot while the bottom is cold. The warm air in the room rises to the ceiling, while the air at the floor may be cold. If the draft is not in working order the stove may smoke and the smoke may be driven out. She hears his voice, in pleading low, into the room. There is an incomplete combustion and clinkers form. All these things are the result of the up-draft principle.

Dr. Robbins has adopted a radically different principle. The pipe is connected with the stove at a point below the grate. There is no the chimney before they can be caught in the other opening below the grate, but there are holes in the top of the stove, and the draft created by the chimney draws the cold air conductor of caloric, the heat caunot be into these holes, down through the fuel and nearly as effective as it should. That is why thence outward by the stove pipe. What is engineers are constantly cleaning out the the result of this down draft? The soot and flues of their boilers. These are some of the smoke and gasses are carried down through

the flames and burned, increasing the heat instead of being wasted. The bottom of the stove is the hottest and the greatest heat is thrown out near the floor, where it is most needed. To make the combustion still more complete a number of small tubes carry cold air to the under surface of the fuel, there to unite with any carbon that may have run the gauntlet. The smoke from the chimney can hardly be seen. Its solid parts have been consumed and turned into heat. The fuel is burned up clean and there are no

Like a great many other things it is a simle principle and its application is simple, but the results are marvelous. Dr. Robbins has had a crude stove in use for two years and carefully studied it. He maintains that it will produce as much heat as the ordinary stove from half the fuel. It will give as much heat from cheap slack, coal aust or soft coal as the ordinary stove will from ex-pensive hard coal. These claims he has dem-onstrated. The down draft may be applied to furnaces and boilers as well as stoves. The stove company is having patterns made and hopes to have its new stoves on the market in

## Only "Making Believe."

BY JOSEPHINE D. HILL.

Rocking to and fro, in the twilight dim, Softly humming an old-fashioned bymn, Aunt Samantha, with tresses gray, Was dreaming a dream of a Christmas day.

When robed in seal skin, rich and warm, Tucked snugly in by her lover's arm; The spirited team flew over the snow-Ah! but this happened so long ago!

As she makes believe when she answers "No!" The home ride-he so silent and grim: The sad good-night-her eyes are dim.

As she thinks of the days she waited in vain, For the lover who never came again: For after a battle they found him dead; Her picture next to his heart-they said.

"Hello, Samantha! What, in tears? When we've been so happy these fifty years!" "Well, Joel, I know I ougl ten ter grieve For what never happened-I was only making believe."

## 6wo New Years Qalls.



That night he made another call.

He called with three girls—pretty things'
He called upon a friend of his—

His friend received him with three kings



On New Year's day he made a call; He called alone, in proper style He called upon a maiden fair— His friend received him with a smile