Will You Have Your Money by the Yard Government to Use New Machine That Will Print Currency in Continuous Strip.

BY RENE BACHE.

ASHINGTON, D. C., Feb. 26 .-Money by the mile. Think of it! Just imagine what it would be like to have a mile of paper dollars to spend. That many ought to last even the most extravagant person

Uncle Sam is getting ready to print his paper money in that way-that is to say, in continuous strips a mile long. Such a strip will be exactly 7% inches wide, its breath being equal to the length of a dollar bill. Which means, of course, that the notes or certificates will be printed crosswise on the paper

Each note is 3% inches wide; so that, as a simple calculation will show, a mile of dollar bills would represent \$20,275-a fairly comfortable little fortune for the average hard-working man. A mile of \$100 notes would make one more than twice a millionaire.

Until very recently all of our paper money has been printed on hand presses. It is an old-fashioned method, and unnecessarily expensive. But the influence of organized labor in Congress has prevented the substitution of automatic machinery for doing the

It was only a short time ago that Congress was at length persuaded to authorize the use of machinery for printing the backs of the notes and certificates. The faces are still printed by hand, on old-style presses,

The bureau of engraving, which is the Government's paper money mill, is anxious to do away with this wasteful system, and, in expectation of favorable action by Congress, is getting ready to revolutionize things entirely by the employment of new machines for printing both faces and backs without intervention by human bands. Some of the machines, which will turn out the dellars in continuous ribbons, are already built, and space for 36 of them -enough to print all the paper cash required by the Government-has been set aside in the bureau's new build-

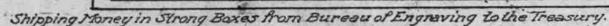
ing at Washington.
The director of the bureau, Joseph E. Raiph, asserts that by this mechanical method, putting the dollars through by the mile, the paper money can be printed than by expert hand labor, The cost of printing the money by

this new mile-strip method will be less than half what it is today. A roll of paper a mile long will be put into an aluminum box that opens in halves to receive it. Then the box will be locked. When the machine is operated, the

the top of the box, in a strip exactly as wide as a dollar is long, and, carried along by rollers, will pass over a steel cylinder on which the design of the design for the back.

promises to pay, arranged side by side, automatic attachment will number the







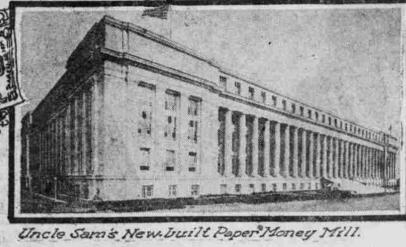
Heating Oil to Mix With Pigments for Printing Money.

along, it will pass over another nobody has explained that the prin- carmine are produced from coal tar, cylinder that is engraved with the cipal cause of our failure to produce. The blue pigment used by the Govequally good coloring materials is that ernment money mill is Prussian blue the patents taken out by German con- (prussiate of potash), and, like the paper will be converted into a continuous strip of Uncle Sam's printed way. Some of the older German pat- Germany. Green is obtained by mixents have run out, and the processes ing this same prussiate of potash with they covered are the ones now being yellow chromate of lead. The black is

notes or certificates consecutively, and, as well as postage stamps, the colors wine presses.

Recently, for the stamps, the bureau of In former days red lake was obtained engraving has been obliged to use from the madder plant; and carmine American pigments, which were found was derived from cochineal insects very inferior for the purpose, lacking (found on certain tropical cacti), 70,paper will come out through a slit in the brightness of the imported product. 000 of which were required to make a Back of this statement is quite an pound. These bugs, by the way, nainteresting story, which has to do with tive of Mexico, were largely cultivated the reason why German color stuffs a while ago in the West Indies, the are so superior to our own. Much has Canary Islands, and Algeria. But at been said in print on the subject, but the present time both red lake and

As it passes targing the machine, the used experimentally by manufacturers a composite, its chief ingredient being stood to be fade-proof. Whenever a from it, ranging from buttercup yel- most valuable ones are still in force, money, and the total amount of new automatic attachment will number the



Selling Fire to the Oil for

Money-printing Ink.

pose, is heated to a high temperature contractor who furnished it.

ton.

of Prussian blue and lead chromate
in huge fron pots and then set on fire. For each of the 300 and odd grades Carbolic acid (a coal tar product so called "chrome green" (mainly for the will not blur.

The money mill maintains the larg- wise employed. est plant in the United States for the For the pigments required for our out of that fruitful material. est plant in the United States for the manufacture of printing inks, more than 300 different grades and tints of Germans because it was they who first mave. Aniline red, one of the most The paper is made by a private conwhich are employed for printing curvency, postage stamps, and internal ors from coal tar. The latter—a by- lowed in 1858. Then in quick successure revenue stamps, of course, are of gas works—is an exceedingly com—all the tints of the rainbow.

The first aniline color produced was ly big enough to make four notes each. The first aniline color produced was ly big enough to make four notes each. The first aniline color produced was ly big enough to make four notes each. The first aniline color produced was ly big enough to make four notes each. The first aniline color produced was ly big enough to make four notes each. The first aniline color produced was ly big enough to make four notes each. The first aniline color produced was ly big enough to make four notes each. The first aniline color produced was ly big enough to make four notes each. The first aniline color produced was ly big enough to make four notes each. The first aniline color produced was ly big enough to make four notes each. The first aniline color produced was ly big enough to make four notes each. The first aniline color produced was ly big enough to make four notes each. The first aniline color produced was ly big enough to make four notes each. The first aniline color produced was ly big enough to make four notes each. The first aniline color produced was ly big enough to make four notes each. The first aniline color produced was ly big enough to make four notes each. The first aniline color produced was ly big enough to make four notes each. The first aniline color produced was ly big enough to make four notes each. The first aniline color produced was ly big enough to make four notes each. The first aniline color produced was ly big enough to make four notes each. The first aniline color produced was ly big enough to make fou much more varied, special ones being plex substance, admirably adapted as the Germans, as fast as they in- each sheet run two bands of scattlered used for playing cards, cigarettes, etc. a base for chemical manipulation. Vented these processes, patented them fibers of red and blue silk—a device the "postage 2-cent red" is an aniline in 1820 "naphthaline" (the stuff in their own and every other country, the imitation of which is a most serifade under any circumstances.

sed experimentally by manufacturers a composite, whenever a from it, ranging to the fresh batch is made, a print is made low to reds, greens, and scarlets.

Then came "anthracene," from which, and American color makers do not currency turned out during the Bureau of Engraving with it on a paper strip, and the latter Then came "anthracene," from which, dare infringe them. Hence their in-month by the Bureau of Engraving with it on a paper strip, and the latter Then came "anthracene," from which, are infringe them. Hence their in-month by the Bureau of Engraving with it on a paper strip, and the latter Then came "anthracene," from which, are infringe them. Hence their in-month by the Bureau of Engraving with it on a paper strip, and the latter Then came "anthracene," from which, are infringe them. Hence their in-month by the Bureau of Engraving with it on a paper strip, and the latter Then came "anthracene," from which, are infringe them. Hence their in-month by the Bureau of Engraving with it on a paper strip, and the latter Then came "anthracene," from which, are infringe them. Hence their in-month by the Bureau of Engraving with it on a paper strip, and the latter Then came "anthracene," from which, are infringe them. Hence their in-month by the Bureau of Engraving with it on a paper strip, and the latter Then came "anthracene," from which, are infringe them. Hence their in-month by the Bureau of Engraving with it on a paper strip, and the latter Then came "anthracene," from which, are infringe them. as well as postage stamps, the colors dispatches, the Government money mill has succeeded in obtaining from Germany a cargo of pigment materials—cnough to print the paper currency and postage stamps for a whole year.

As recently announced in the news dispatches, the Government money mill has succeeded in obtaining from Germany a cargo of pigment materials—and postage stamps for a whole year.

As recently announced in the news dispatches, the Government money mill these coloring materials reach the beautiful pigment called "Turkey with the German in brilliancy and perblue, green, and black. The reds are the Bureau of Engraving in the form the used for scals and the backs of bonds, for the backs of "greenbacks."

All these coloring materials reach the Bureau of Engraving in the form the used for scals and the backs of bonds, of dry powders, packed in barrels in the served to protect it against red" (previously derived from the used for scals and the backs of bonds, of dry powders, packed in barrels in the served to protect it against red" (previously derived from the used for scals and the backs of bonds, of the same period, the number of the same period, the number of the succeeded in barrels is exposed to powerful ultra-violet in 1858, two German chemists obtained ability to produce pigments that vie was about \$1,560,000,000.

All these coloring materials reach the beautiful pigment called "Turkey with the German in brilliancy and perblue, green, and black. The reds are the same period, the number of the same period, the number of the same period, the number of the same period. The same period to powerful ultra-violet in 1858, two German chemists obtained ability to produce pigments with the German in brilliancy and perblue, green, and black. The reds are the same period to powerful ultra-violet in 1858, two German chemists obtained ability to produce pigment at the same period to powerful ultra-violet in 1858, two German chemists obtained ability to produce pigment at the same period to powerful ultra-violet

The oil, before being used for this pur- factured is rejected and returned to the

It is allowed to burn from 20 minutes and tints a standard sample is kept in to three hours, according to the kind stock, to afford means of comparison, ant) yields a valuable series of colors, of "note black," for the faces of notes: of ink that is to be made—the object The "gold tint" used for the faces of from gorgeous yellow to reds, oranges 100,000 pounds of "power-press black"; of this performance being to render it gold certificates, by the way, is chrome and browns. But the great discovery 50,000 pounds of "internal revenue thick and sticky, so that it may cling yellow—a mixture of lead chromate in this line was "anlline," which, in green": 250,000 pounds of "postage 1to pigment and paper. Ink thus made and red lake. For the gold figures on 1856, was accidentally obtained from cent green," and 200,000 pounds of these securities chrome yellow is like-

(coal tar) pigment, guaranteed not to moth balls are made of) was separated including the United States. Many of our difficulty to the counterfeiter. out from coal tar; and, later on, the the older patents, as already stated. All the inks used, indeed, are under- most beautiful colors were derived have run out, but the newest and used last year for the printing of

vention raised its market value sud- ment consumed (of the manufactured denly from almost nothing to \$500 a inks), 1,300,000 pounds of the mixture

Printing Paper Money at the Bureau of Engraving.

useful as an antiseptic and disinfect- green backs of notes); 600,000 pounds coal tar by a German chemist who "postage 2-cent red." was trying to get an artificial quinine

STERLING HEILIG WATCHES FIRST

grease, but the above-mentioned in- During the last year that establishof Prussian blue and lead chromate

> As above mentioned, all of the paper money is now printed on sheets exact-

Ninety millions of these sheets were

TOURING AMONG THE STYLE SHOPS

Paris milliner's. "Please don't hurry me," she said

I didn't. Immediately on entering, we passed inspection of a stylish cashier, whose deak leaves just room for it, in a narrow passage flooded with electric light, before you reach the "parlors"; but the latter are discreetly. softly lighted-some with filtered dayeven-against white-lacquered

panels and pale-green silk hangings.

It gives a sense of peace. 'She looked me in the eyes!" the lady said; but, in reality, she didn't. Who can know what's in that blonde head, wise with the wisdom of all womenand a lot of men, too? How does she do it? The deferential welcome never changes. Who can read its modulations? Yet I have known shabby ladies from Seattle, passing to the parlors, to find the whole shop at their disposal, while smart women, with the "manner." in adjoining salesrooms, sat and viewed today's styles, their hearts raging-never seeing the styles of tomor-

"Morning hats? Traveling hats? Af-

ternoon hats?" "Yes," the lady answered. (It is a good old American standby, to pretend not to understand completely).

We were in one of those small rooms you've heard about, a dozen in a suite, all emptying into each other, yet separate. They bring the hats from Bluebeard's Chamber.

ive for traveling."

feta sailor, half-lined with turquoise-

In the next room, a party of Ameri- flat, graceful women ... Silence. eans had entered. Evidently they were buyers for some big firms. Going on the good old American principle that good girls came back with five nice nobody in Paris understands our lan- toques. guage, they were talking shop. Their

words came vaguely to us.



Evening Hat Style 1870, of Black talletas, With Black Chantilly Lace, Irimmed with Nottier Blue Ribbon and Nattier

Blue Roses, Got that? Beaded roses, petals just (weak tea), black with silver-gray in week it will be for sale upon the coun-"Traveling hat," the salesgirl mur- outlined with tiny beads. Put down, a sallor-forms." "Angora straw, silver-gray, growing craze, smart hats for sports. lined with dark blue satin, very effect- Golf hats with little jackets to match. Did you ever see a fluffy, woolly bzzz!)-"Bamboo faced with silk. I told effects," replied the patient creature, lady, firmly. straw? The thing looked whooping on them, it's manilla! (bzzz! bzzz! Says "Many horse-hair large hats, also which Nothing could show better the march cepts, because it gets a good form, he said, reassuring. the lady; but she sighed and passed it. he bought 250! (bzzz! bzzz!) Has no look lacey and transparent." She looked whooping in a round hat, confidence in the small high shapes." kind of sailor, crow-blue taffetas, lined (bzzz! bzzz!) "The Angora has been work.

My companion motioned me to si-

sailor hat lined with light gray taffeta "I am listening!" she murmured; but with an 1839 hat or "starred straw, or names are tailous, our American tria, plicate their own creations by hand: moment to spare.

"I am listening!" she murmured; but with an 1839 hat or "starred straw, or names are tailous, our American tria, plicate their own creations by hand: moment to spare.

"Madame," he said, "do not worry, american tria, plicate their own creations by hand: moment to spare.

"Madame," he said, "do not worry, or dark rose, buying the trimmed model they object. This year, to keep in the passure of spare, or to keep in the passure of this year, to keep in the passure of this year, to keep in the passure of the said trimmed with flowers and Nattier blue tained from these foremost milliners a prematurely throws and Nattier blue tained from these foremost milliners and adpoint the form is blocked for them to work what is so simple and the passure of the new however, could procure them, because, Only for Paris does the combination "Madame," he said, "do not worry, and the said of the conversation died out in the displacement of the conversation of the passure of the said of the sai

"It's this Angora," she said, as the

before, two shades of the same color. small flower. This other, very elegant Nattier blue ribbon and Nattier blue "We buy straw by the piece of 10 was

barry pink straw and with wreath of just the eyes." shaded small pink roses and some green leaves . . "

"Many grays, pigeon-gray, a darker dark blue satin. gray called "mitraille," also dark green. "Very smart," the lady said. "but why black with turquoise, black with tilled has it been blocked already? Next creation. No more forms bought!"

The lady said she meant the toques. Golf hats with little jackets to match. "The toques of horse-hair straw, all sales girl, politely. Excuse us just a minute, Mary!" (bzzz! mixed with lace or tulle, giving fluffy "It has been blo

lips hiked to the distance and returned 10 or more "creating" milliners, whose greatest designers have trouble to dusailor hat lined with light gray taffeta. "I am listening!" she murmured; but with an 1859 hat of "starred straw," or names are famous. Our American firm, plicate their own creations by hand! moment to spare.

Brown-eyes came up. use, they were taking shop. Their "Nice, dressy afternoon toque," said hat, habille, and now coming for the reason why, in the past two years, the bald young man, immaculately dressed, understand it might be difficult to "You have stellen a style! I told her, ords came vaguely to us.

"Leather and kid roses, never seen horsehair straw, and trimmed with a black Chantilly lace, tr

and youthful dressy toque, made of Du-roses. The length of the veil covers SZraw, or Horsehair I could almost feel the lady's nerve

strain. She reached out and picked up the

"Are these the colors?" asked the Angora straw for traveling, sweet silver-gray "woolly" straw, lined with

ters of the Galeries."

of Paris millinery during the war. Two "They depend upon us milliners for I could almost hear the lady's brain years ago the great straw houses still their best shapes now," while the mil"Perhaps not now," she said, "but
work.

originated all the straw forms, which liners can give out their "devis," as when I want to use it in the Summer?" "Friends of mine," she said, "wear they dealt out to the milliners in vary- heretofore, to good American buyers. with blue straw ribbon-trimmed and blocked, I tell you!" — "I know. Keep "Friends of mine," she said, "wear they dealt out to the milliners in vary. heretofore, to good American buyers. "No," he answered, "they'll keep that "I have a system for the Summer. I'm solid to solid to seally forms. I'm sailor forms. I'm sailo The slender brunette girl with purple money, the straw forms allotted to some dozen. And everybody knows that the "Large, flat, graceful hats for large, ribbon. "Framing the face nicely," she "devis"—list of materials and adon the popular market! flat, graceful women..." Silence. said. "All sewed by hand. Not blocked." dresses, "with permission." All right. "I know." the lady said, "I know."

Little by little the great Paris department stores obtained them also—the Brown-eyes came up.

"This 1870 hat is very newest." she exclusive straw forms—which is quite

It was at Lewis'; and the slightly She answered cheerily that she could got five hats, 10 hats! I know where out girls came back with five nice "This 1870 hat is very newest," she exclusive straw forms—which is quite it was at Lewis; and the slightly She answered cheerly that she could affirmed with gladness. "An evening another story! This is said to be the it was at Lewis; and the slightly She answered cheerly that she could affirmed with gladness. "An evening another story! This is said to be the bald young man, immaculately dressed, understand it might be difficult to "Nice, dressy afternoon toque," said hat, habille, and now coming for the reason why, in the past two years, the bald young man, immaculately dressed, understand it might be difficult to



Hat Style 1830, of Very Dark Pink "Starred Lace.

yards," said the good girl, "and 'ereate' each form by sewing it round wires of esparte-matting. It began with silk ? and velvet hats on forms of matting. Dreamy Afternoon Now it's straw, too-every hat is a

turns out to be very successful, a real "It has been blocked?" murmured the "type," and women clamor for it, they send out and have it "blocked" by a master in form and color, nephew and "It has been blocked!" replied the great straw house. It is complicated heir of the whole shop.

ady, firmly. "It won't be on the



Toque made in Dreped Lace Horseheir Straw Yes, but when a straw "creation" and Trimmed with a Small Flower:

"It won't be on the Paris market,"

The lady did not seem reassured.

"Monsieur Gaston," said the sales- on, cannot reproduce their own orig- Monsieur Gaston going on, I understood

blocked, because they couldn't; but, all the same, the quantity of graceful straws we see, where it's all in the shape and very little trimming, ought be within the reach of imitators.

"Madame," answered the man-milliper, "the simplest hat is the most diffleult to copy. You may have the form, but not the tint or the exact material. Where there are few trimmings you'll observe that they are very novel, beautiful, or just so. If you can't unite the very same elements, you fall into a new creation. Take the simplest of all, ribben trimming. Do you know that we have women who do nothing but make ribbon bows? If they succeed 10 a day, we are satisfied! I could tell you of one who never touches any other work than shirring."

The lady tried to look pleased. "For the coming Summer season," said the master, warming to his subject, "there is just one great chance for successful copying-so great that it is half the model Sallor forms! We began the season with them, are continuing, and shall end with them. Slik material, more taffetas than satin, and in all shades. I'm glad of it. Any lady can copy a sailor hat. It is the only hat that a lady can copy. It is suitable for all ages. Taffetas lined with straw, straw lined with silk, anything! I'm delighted when the ladies get a chance to copy!"

The lady took philanthropic interest. Really," she said, "are you quite

Then:
"That little traveling Angora, I shall take it. It is too sweet. I'll pay for it now, and wear it. Thank you so much. Good-bye!"

On the street, I told her I had not quite caught her drift. When a lady goes to Lewis' to buy three dressy hais, with preference for Early Victorias and Empress Eugenies, and comes out with just one wholly straw.

"Perhaps not now," she said, "but with just one wholly straw—
hen I want to use it in the Summer?"
"But isn't it a duck!" she interrupted
"No," he answered, "they'll keep that "I have some better than three hats. I
have a system for the Summer. I'm Obviously she hesitated.

Monsieur Gaston seemed to have a the Paris hat—I mean the Paris hat—toment to spare.

It is inevitable. After all, what makes the Paris hat—I mean the Paris hat—that takes? Why, Paris! Paris women