

Robert Fulton, a Pennsylvania genius, first steamed his boat up the Hudson, August 7, 1807. Practically the beginning of modern steam navigation

Philadelphia .- While New Yorkers | next found as an officer in the Conwere jubilating over the centennial of tinental army. The Indians took him the historic journey of Robert Ful- prisoner, and he was removed into ton's steamboat Clermont, which made the Northwest territory. He made a the trip from New York city to Albany map of the then little known country under her own steam, on August 7, west of the Alleghenies, and subse-1807, Pennsylvanians have a more quently came to Philadelphia. Here than ordinary interest in the honors at one time he lived on Second street, to be paid to the inventor, for he was near Vine, but began his inquiry into a son of this commonwealth, and it steam navigation at his place at Newas here that he obtained his first shaminy. ideas of a method of propelling boats by the use of steam.

correctly, has been lauded as the in- followed him. While he was engaged ventor of the steamboat. As has been as a civil engineer in the southeastern well said, neither the steam engine part of Pennsylvania, he came into Hudson, and the New York legislanor the steamboat was, in the strict contact with William Henry, and if he ture granted another potential monopsense of the word, invented. Fulton did not see the latter's invention he was not the inventor of the steam- at least met him and heard of it. At boat, but neither can any other person any rate, in 1787 Fitch did construct be so characterized. The steamboat a steamboat which he set in motion was a good many years being invented on the Delaware river. and there were many hands at the work. This fact, however, does not lessen the brightness of Fulton's achievement, for, had he never been connected with the inauguration of , steam navigation, he showed so many other evidences of mechanical invent-

iveness and of artistic effort that it is extremely probable that his name would not be forgotten. Projects Before Fulton's.

More than 100 years before Fulton pose of propelling boats through the inventor actually constructed such a pulsion consisted of raising water by means of a steam pump, which water was then applied to a water wheel tion he owed to Fitch's steamboat. At and drove a set of paddles on the same the time the first Fitch boat was

With Fitch the idea was not original any more than it was with any of formed a partnership and made an ex-In some quarters Fulton, rather in- his predecessors, or with those who ingston.

Fitch's Scheme Languished.

Two years before Fitch had appeared before the American Philosophical society and showed a model of a steamboat which he intended to construct, and in 1790 he had a steamboat on the river that could make eight miles an hour, and was advertised to make regular runs between this city and Trenton three days a week.

A Virginian, James Rumsey, at the began his experiments the idea had time Fitch was requesting various possessed inventors in other parts of state legislatures to grant him assistthe world. In 1690 Papin proposed ance, claimed to have invented a the use of a steam engine for the pur- steamboat prior to that of Fitch. Rumsey's claim, however, was discredwater, and exactly a century before ited, even by his own state. Fitch's the Clermont made its famous run the lack of support and the coolness with which the country viewed the project, boat, which he used on the River Ful- although one small boat had made no da, at Cassel. The boat was of rude fewer than 21 advertised trips without construction, and the method of pro- accident, permitted Fitch's scheme to become quiescent Fulton never disclaimed the obliga-

something of a genius. It is told of him that at the age of ten years he had made for himself his own lead pencils. They were crude affairs, of course, but at that time they were nearly as good as could be purchased. At 14 he devised a skyrocket, and had invented an airgun. His biographer says that it was at this time that the idea of steam propulsion for vessels first took possession of him, and that he actually made a model of a boat that could be propelled by means of paddles.

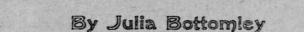
Experiments on the Hudson. After he went to England, where he studied painting, in which art the numerous examples of his work extant show him to have been proficient, he went to France. There he became busy on a plan for steam navigation, which he succeeded in getting presented to the first consul; but the French government was too much preoccupied to pay much attention to the young American's representations. A friendship, however, most important for the future of steam navigation, sprang up between Fulton and our minister to France, Robert R. Livingston, formerly chancellor of the state of

New York. Livingston had become interested in steam, and had built a vessel and made experiments on the Hudson. In 1798 the New York legislature gave him a monopoly of navigating the waters of New York by steam, provided that within one year he should propel by steam a vessel of 20 tons four miles an hour. This he failed to do, but his interest in the problem never flagged. The two men periment on the Seine, which, how-

ever, proved a failure. Then they decided to make experiments on the oly similar to that granted to Liv-

Another vessel was built at a shipyard on the East river, according to plans carefully worked out by Fulton.

ROBERT FULTON The Clermont, as she was called, was



For Midsummer



Some women have what the French call "the sense of clothes," so much more correctly discriminating than others, that they are able to command a most respectful attention from their fashionable, and sometimes envious sisters. Hard indeed, is it for the women of wealth and fashion to find herself beaten by some talented rival of less means, and perhaps of less beauty. whose exquisite appearance is brought about by an eye for lines, color and detail in dress. It is these that count, and one should never make the mistake the supposing that money can supply the lack of them, except in those instances, when it is content to purchase clothes of some one's else choosing, and even thus loose individual distinction. For only the woman who knows how to choose the proper costume, knows just how to wear it properly.

These gowns illustrated here are moderate in price, and may be copied at a very reasonable expenditure. They leave nothing to wish for, being beautiful, and perfectly adapted to the purpose for which they are made. DESCRIPTIONS.

Fig. 1.-Gown of blue and green voile is an indistinct plaid, with decoration of dark green taffeta silk and a fancy braid in black, having touches of white on edges. Cream colored lace and small decorative medallions of gold are introduced in the bodice.

Fig. 2.-Hat of black milan braid, appropriate for wear with a variety of gowns. The shape is edged with white braid, and supported by silk wires. A group of pale blue wings is mounted at the front with a touch of La France roses, set close to the crown. Blue ribbon trims the bandeau.

Fig. 3.-Hat of silk braid with simple trimming of three quills, made in shades of grey. This is worn with a street gown, that is the illustration, being of black taffeta silk.

a gen



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One June afternoon there was a | expressed his thanks, and stepping gentle knock at the hall door of a cerover to the open door of the kitchen tain farmhouse in the back country.

mother; "I do hope it ain't nobody to kindness in waiting on me, my little hinder us!"

The girl obeyed, and on opening ing in the vine-shaded porch.

if I am on the direct road to Clifton, into the grass. They all dropped their and also how far it is?"

miles." "Three miles yet? Dear me! And

is there any hotel or place where I can get a meal on the way?" "No, only farmhouses like this." "Well, can I get something here? hand.

Even a glass of milk will be very acceptable. "Tell him we don't keep a board-

in' house!" called a sharp voice from the kitchen. The girl's face flushed, and she re-

plied

"If you'll just wait a minute, I'll ask about it; we're very busy just freshed, had made wonderful speed now.

She went down the hall and pulled the door shut after her.

"We might give him a lunch, mother; he don't look like a real tramp, out.'

The mother impatiently dusted the flour off her hands and stepped into the hall, followed by two older girls than Della.

"We ain't in the habit of givin' meals to strangers; we've got work enough besides that!" she said.

"I presume you are a busy woman, but I expected to pay for whatever



where Dell stood, placed a coin in her "You go to the door, Dell," said her hand, saying: "Here's a trifle for your friend." He strode hastily out and away, and the door found an elderly man stand- the girl in her surprise let the coin slip from her fingers, when it went "Will you be so kind as to tell me rolling across the door stone and out

work and came out to help look for "Yes, sir, and it's about three it, and Kate, the eldest of the sisters, found it.

"Gold! as true as I'm a livin' sinner!

All crowded around, and the mother reached out and took it in her eager

"Yes, it's a ten-dollar piece, I do declare! You're in luck for once. Dell!" but the girl was flying down toward the gate. "Child! come back! why. I do believe she's crazy enough.

to try an' give it back!' That had been her first thought, but the wayfarer so newly rested and reand was out of sight.

"Oh, dear! he's got away over the hill, and he must have made a mistake. 'Here's a trifle,' he said. If I hadn't dropped it, I should have had

and he seems so warm and tired time to return it to him, but now what can I do?" "Why, keep it, of course, you little

goose!" said one sister.

"Oh, girls!" gasped their mother. "I do believe with all my heart an' soul that was your Uncle Oliver!" and in the shock of the terrible conviction she sat herself down flat on the kitchen floor.

"Good grashus, mother! you can't mean it?

"I'm-I'm deathly afraid it was! an' if it's re'ly him, we're outdone forever!

"An' to think how I talked to him," moaned the mother rocking herself back and forth.

"Do you s'pose he'll come back again, mother?'

"Back? No, indeed! We've lost him forever-money an' all; an' what will your father say? He's sot sech store by his comin' ever sence we got that letter about it, an' so have I."

"Don't you think pa had better go over to the village and see if he can find him? I guess he could coax him to come back."

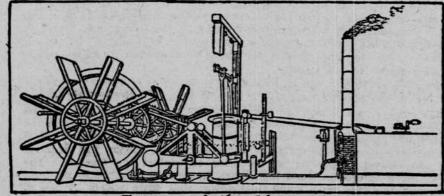
When Mr. Bailey came in the appearance of the stranger had to be minutely described again and again, and then he said:

"Yes, Uncle Oliver always was a dretful quiet, soft-spoken sort of man: but yet I can't seem to think it could have been him-though I do suppose he might have grown roundshouldered an' gray in 20 year. But why didn't you ask him right in?" "'Cause we never had a suspicion till he was clean out of sight, an' we see the gold piece he give Della; then we put some bits he said along with that; an' yet we don't know for certain, only we're afraid 'twas him." Dell went out when her father was harnessing and handed him the gold coin. "If you find the man, and he isn't Uncle Oliver, I want you to give him the money, for I know he must have mistaken it for a silver piece, and tell him he was perfectly welcome to the little I did for him.' Toward evening Mr. Bailey returned with the same person who had so unexpectedly called on them. The men came in the house together, and the duly-presented uncle, whom he proved to be, was very smiling and gracious. and seemed to all appearances totally oblivious of the fact of his previous call; but when Mr. Bailey went out to care for the horses, his wife began a profuse and abject apology, seconded by her two elder daughters But the good uncle begged them not to distress themselves, and said that he bore no malice, and it was partly his fault in coming in such a manner, though he had no suspicion . at first that it was his nephew's house; and then giving them no chance for further speech, he went on to tell how glad he was to see his nephew, and how many changes had taken place in the village, and so on, until Mr. Bailey came in, and then the mother and daughters proceeded to set the supper table loading it with a profusion of good things, but it was a very subdued circle who sat around it. But in the course of the evening he found a chance to slip again into Della's hand the ten-dollar gold piece, saying with a genuine feeling: "It was no mistake, my dear child, although I was not positive that you were my niece until I made inquiries at the village; but you were kind and tender hearted when you thought me a common wayfarer-as indeed I was.

What influence this invention shown here Fulton was an apprentice might have had upon the commerce of to Edward Duffield, a silversmith, who 160 tons burden, 130 feet long, 16 feet the world will never be known, for it was in business on Second street bewas not allowed to prosper, being de- low Chestnut. The old frame buildstroyed by some ignorant fanatics.

In the century which intervened until 25 years ago. It is only natural there was considerable talk of apply. to infer that the active young apprening the steam engine to the use of boats. Nothing came of it in a prac. see the invention, especially as he was tical way until an American blazed something of an ingenious mechanic the way. The first of these pioneers himself.

was also a Pennsylvanian-William Robert Fulton's Career. Henry, a native of Chester county, but Robert Fulton was born in Little at the time of his experiment a resi- Britain township, Lancaster county, dent of Lancaster county. About 1763 November 14, 1765, his father being a Henry, who had just returned from a native of Kilkenny, Ireland. The Fulvisit to England, took up the subject | tons moved to Lancaster city when of a steamboat. He constructed a Robert was an infant, and it was in small boat, or rather attached an en- the schools of that city that the ingine to an old bateau. This consisted genious young inventor received his



of the Clermont Enorne

primitive contrivance he boldly es- | William Henry, and to have visited sayed to steam down the Conestoga his home to see some of the earliest river. From what can be learned of efforts of Benjamin West, of whose the attempt, it was far from being un- painting he was, as were all artisticalsuccessful, but by an accident the ly inclined Americans in those days boat was sunk, and the steamboat had enamored. to wait another quarter of a century At the age of 17 Robert was brought

before it was to be given practical to Philadelphia and put as an apprentice with Duffield. There he finished shape

Distinction Due Fitch.

This time it was a resident of Phil. getting the better of him, he decided adelphia, John Fitch, who from all appearances lacked only support to be known for all time as the man to to support, he managed in some manwhom modern steam navigation is ner to save enough to take him to due. Fitch had an adventurous ca- London, where he placed himself at He was born in Connecticut. At the time of the revolution he was Benjamin West. a watchmaker at Trenton, but the

of a pair of paddles, and with this education. He is said to have known 150 miles in 32 hours, equal to near

wide and four feet deep. Her engine had a steam cylinder 24 inches in diing, lately numbered 121, was standing ameter, her wheels were 15 feet in diameter and uncovered. Description of the Voyage. tice should have enough curiosity to Here is Fulton's description of

the voyage which revolutionized navigation, in the form of a letter to the American Citizen:

"I left New York on Monday at one o'clock, and arrived at Clermont, the seat of Chancellor Livingston, at one o'clock on Tuesday-time, 24 hours, distance 110 miles. On Wednesday I in the morning and arrived at Albany at five in the afternoon-distance 40

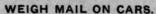
miles, time eight hours. The sum is five miles an hour. On Thursday at bany, and arrived at the chancellor's York at four in the afternoon-time

the wind was ahead; no advantage could be derived from my sails; the whole has therefore been performed by the power of the steam engine." Memorial to Fulton.

The task of erecting an adequate monument to commemorate the great inventor is in the hands of an associ

ation of public-spirited men, incorporated under the laws of New York, known as the Robert Fulton Monument association. The association has determined that the monument shall take the form of a water gate and mausoleum to be erected at One Hundred and Sixteenth street and the Hudson river. A bill has been passed his trade, but his artistic instincts by the legislature making the necessary grant of land. It is intended to to abandon his trade and take up art. provide a place where distinguished foreign visitors to our shores may be fittingly received by the municipal, state or federal authorities; in a word, to give New York a front door. It is the feet of his master in painting, expected that ground for the construction will be broken on the next an-

CONTRACTOR DE CONTRACTOR CONTRACTOR CONTRACTOR



Done Every Four Years as a Basis for | mail service is employed.

the mails on the basis of a contract running four years. Once during this period additional men are put on the

mail received and delivered at each station. The figures thus secured are as- on the return trip between the same sumed to represent an average of the points. amount of mail carried on that route.

and become the basis of the contract. kept up for 90 days, and the totals Four years later a new period of weighing is begun, and the contract is week and the end of the whole period. revised in accordance with the new Formerly each day's report was enfigures.

The United States is divided into lating sheet three feet long and two four contract districts, says System, feet wide, and figures had to be totaled and the weighing is carried on simultaneously in all parts of a district. The following year some other district is when I tell you that the report of just weighed, and thus the circuit of the two trains on a long run for the period country is covered in the four year of 90 days took up 13 of these large period.

It is in the tabulation and complia- "The work kept 25 men busy in the

error in the footings. "The weighing of the mails for the "So we developed the plan of doing purpose of awarding the contract is away with the tabulating sheet alto on the route, and also the weight put to the machine, one man reads the off. Another card records the weight

weighers that the system devised by of the weighing, and for three months

Carle C. Hungerford of the railway afterward. Then there was liability of

another operates the machine. "The figures for a week are kept tomust be footed at the end of each whole route.

and mail taken on. At the end of the weighing period the totals for the vari ous weeks are footed on the machine

ports after the weighing closes. Here tofore we had to keep 25 men at work tabulating and adding; now half the side.

The pictures are from The Illustrated Milliner

SOME MODISH HATS

of lace upon the edge for a finish.

plaited cachepeigne is needed at the

back to fill up the space unless one

fills it up with hair puffs and short

Sweet Odors.

The scent used to fill satchets is, of

course, a matter of personal taste.

The fragrance of orange blossoms is

thought appropriate for a bride's sach-

ets, and orris and violet mixed togeth-

mundane mortals lay among lingerie.

Useful Coffee Coat.

for the famous little coat, which is

holding the whole of fashionable Lon-

For those who like something odd

er fill the majority of those that mere

curls.-Vogue.

coverings.

don in its spell.

Paris Correspondent Sends Descrip. Styles Now Being Worn Possess Real Beauty-Feathers Are Givtion of Charming Gown in Simple Design. ing Place to Flowers.

An idea which could be well reserved for an autumn gown is carried out in a simple but rather heavy rose pink silk toilet, trimmed with white silk soutache and the fashionable touch of black, writes a Paris correspondent. Three inches from the border of the long, round skirt is a departed from the chancellor's at nine band of braiding eight to ten inches deep, with the upper edge arranged in points. The fitted redingote buttons in a curved line across the bust

FOR AUTUMN GOWN

and fastens with two black satin buttons and loops. This part of the nine o'clock in the morning I left Al- garment cuts off in little points at the waist line so that the skirts open at six in the evening. I started from a good deal; they fall in points in brim, sailor shape, like the fashionthence at seven and arrived at New front and are longer there than behind. The large armholes are edged 30 hours, space run 150 miles, equal to with a fold of black and the pelerine five miles an hour. Throughout my sleeves, which fall in points well over This hat to be smart is especially whole way both going and returning, the elbows, are covered with braiding, with the exception of a four-inch band about the edge. A line of black edges the braiding, so the plain part appears like a set-in border, and it is decorated with black buttons and loops.





The mission of the coffee coat is to give one a garment for dressy wear Child's frock of, white batiste elaborately made with tucks, bands of in the house. And the woman who is clever will provide herself with half embroidery and frills or valenciennes a dozen to wear in case of emergency. The bretelles are made in the same In the summer time such a coat is

way; the collar and girdle, the latter prettily knotted, are of soft satin rib-

Big Black Bow Is "Parisian." A recent cry from Paris proclaims

the newness and smartness of large black taffeta bows on millinery, these bows monopolizing the place of flowers and feathers. A white chip hat, the brim turning slightly up from the face in front and drooping in the Gowns of Cretonne for the Country approved form at the back, had the brim bound with black ribbon velvet, for the country there are amusing litand carried enormous massed bows of the costumes of flowered cretonne. rich black taffeta ribbon as its sole trimmed with English embroidery exterior decoration, a tenderly-tinted and some touch of black. These are

e e e e e An Elderly Man Standing in the

Vine-Shaded Porch. I had. I beg pardon for troubling

you!" he said, turning to go down the steps "Oh, hold on!" said Mrs. Bailey. The picture hat that stands for true 'You can come in if you'll be suited elegance has a wide limber brim that with a 25-cent lunch in the kitchen. droops into the most bewitching lines. We've got our dinner all cleared away. showing the hair and brow in all their

and we're fixin' for company, an' beauty. Its chic trimming is a band ain't got no time to fuss about anyof velvet, taffeta or ribbon the height thing else." of the crown and large roses or The man wiped his feet carefully peonies then set into a wreath, each and followed her into the room, which flower apart showing the band bewas filled with the pleasant odor of tween. Feathers continue to give baking cake. She pushed a chair toplace to flowers, and have no longer ward him saying: "Set down there till the same monopoly as in the seasons it's ready, and Dell, you set that little past. The newest hat, in the sense side table for him. You'll have to din that it stands for midsummer wear into a fresh pan of milk, I s'pose; especially, is of tulle-dotted net, or we've used up one whole panful alall-over lace shirred into a straight ready to-day."

The young girl came tripping up able straws, and is trimmed with the cellar stairs with a bowl of milk. transparent lace bows, three pairs a loaf of bread and a plate of golden across the front, increasing in width. butter.

"Shall I cut some of the boiled ham, hand-made. Cheaply made it shows mother?' she asked, in a low tone. what it is, thereby undesirable. 'The "No, indeed; git that piece of fried bows should be made of a wide, fine ham left over from our dinner, an' I lace insertion with a narrower one guess there's a scrap of cheese in the on either side to reach the width of cupboard, an' that's plenty enough for ribbon and must have a fine edging a lunch.'

"But surely I can get a piece of These bows are wired softly, but the pie?" art required lies in the posing and "No, you won't! I ain't a-goin' to shaping of them. A white maline

have all my company vittles cut into like that." The girl sliced some bread, and placing a chair, said: "Sit down,

please!" then taking a sunbonnet from a nail, she hastily left the house. "Are you lookin' for work?" asked Mrs. Bailey, after a moment or so of silence.

"No'm: I'm tired of work!" said the man, meekly. I was calculating to rest a spell." At this one of the girls laughed out-

The scent of jessamine is particularly right, and said with a toss of her fashionable this season, and many afhead "I'm tired of work, too, and I don't

fect it altogether for personal use. Sondalwood has its particular adhermean to do much more of it. We exents, although it is not generally poppect a rich uncle here, an' I'm plannin' ular. It is used, as well as violet, to be his favorite niece an' go an' for combining with orris. In fact, live with him when he settles in the to combine sachet powders, striving city, an' be his heiress. That's the to get an individual result, is the kind of a life suits me!"

after charm of making their attractive "He'll soon get sick of you, an' choose me instead!" said the other girl.

> "No fear of that. I'm the oldest, an' mean to keep on the right side of Uncle Oliver. I've been half wild thinkin' of it.'

"Just then Dell came in with a dish of garden strawberries which she had hurriedly picked and hulled, and covpositively priceless, for it can be worn ering them with sugar, placed them with one's old waists and odd skirts. before him.

and it has the merit of always looking "They are of my own cultivation," dressed up. In case of a sudden call, she said proudly, and a bit defiantly; one can dash into one's coffee coat "they are lovely, and you are weland come into the drawing-room lookcome to them!" ing cool and well dressed. So much

"They are beautiful indeed, and you are very kind to offer me such a treat!" answered the man, looking up at her sweet, flushed face and then at her sisters, whose countenances bore such unmistakable signs of scorn and

displeasure. "Dell is always such a fool!" said one of them in an audible tone.

The meal was finished even to the last strawberry, and the man arose and placed the silver quarter on the

BASE-BAWLED NURSERY RHYMES

(By a fanatical fan.) Jack and Jill Went up the hill The ball- game for to see. They sat up there Because this pair Lacked the admission fee. Rock-a-bye, baby, On the tree-top. When the wind blows the cradle will rock; When the bough breaks The cradle will fall. And next time baby will know better than to climb up there to watch A game of baseball Little Bo-Peep Has lost her sheep; And I know where she'll find them (This poor little dame). Up at the ball-game, With a lot of "rooters" behind them.

If a college course began at commencement and ran backwards for four years to the start, the finish of many students might be considerably

Judge.

lace.

gether, and totals taken for each town "The cipher in the middle of the col

"The size of the job can be see takes three months to finish the re-

Although he had a widowed mother

As a youth he showed talents in niversary of Fulton's birthday, No-British destroyed his stock and he is 'many directions, and was undoubtedly vember 14.

Railroad Contracts.

vertically and horizontally.

The railroads are paid for carrying not a new departure," said Mr. Hun- gether. We used the adding machine gerford. "That was part of the old and make its record strip the permasystem. The mail weighers have nent record of the weights. Instead cards on which they record the weight of first entering the figures on the mail cars, whose duty is to weigh all of the mail taken on at each station large sheet and then transferring them

amounts from the weighing report and "This process of daily weighing is

At the end the totals are taken for the umn marks the dividing line between tered by the clerks on a large tabuthe columns for mail put off the trair

"We can do the work with half the clerks that were formerly needed. It

of the reports sent in by these official Chicago headquarters during the time number can do the work." 1 martine A BARAN le deside dis dostess, very politery | impre