

WAGS IN THE OHIO.

Work of the Government Boat E. A. Woodruff in Clearing Up the Channel

OR PITTSBURGH'S TRAFFIC.

ts Unique Equipment and Novel Methods of Operation.

AN LIFT OUT HUNDREDS OF TONS.

Monster Steel Beak That Plunges Sunken Barges to Pieces.

RECORD OF OBSTRUCTIONS TAKEN OUT

(WRITTEN FOR THE DISPATCH.)

As the typical Western river boat, evolved from the flat boat by American ingenuity, is both the product and the triumph of the necessities of the environment, so, also, may the same be said, with equal significance, of the stalwart creature known as the Government snag boat, which walks the self-same waters, and of whose habits and mission this article says something here to say.

A Government snagboat is a sort of John A. Daplight to the boating interests of our inland rivers. It clears and prepares their

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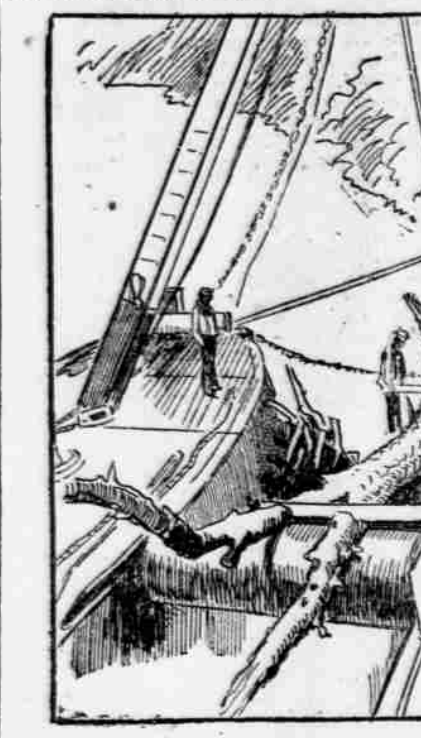
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1 1/2 feet depth of hold, and a width over all of 78 1/2 feet. Her main propelling engines are 20 inches bore and 6 feet stroke, making 18 to 18 revolutions a minute. Her four boilers are 25 feet long and 40 inches in diameter. When snaggings they usually carry 120 pounds of steam, and when running 140. The oval paddle wheels are 24 feet in diameter, working a bucket 11 feet long and from 12 to 22 inches broad. Her mean draft is about 32 inches.



SAWING UP A BIG SNAG.

Besides the propelling engines and steam pumps she contains six auxiliary engines. The rotary engines work the windlass and operate the drag chain. The hydraulic jack and screw is used to raise and lower the great tree trunks are rapidly cut into pieces and then easily disposed of. This, as well as the unique wrecking hook and many other mechanical aids and inventions which facilitate the work, were designed by the Captain.

Another important feature in the vessel's equipment is "samities" and machine shops. Near this is a complete carpenter's shop. One wheel and then with the other. If the current is swift, and there is danger of losing sight of the exact location, the vessel is lowered in the water, catching hold of and the progress of the work, a buoy is dropped to keep the locality marked. If necessary, soundings are taken with a long, slender iron pole or other means of the depth and the water over and about the obstruction. If it is not over 15 feet the obstruction is often probed with the long, sharp and curved steel wrecking hook or beak. If the obstruction proves to be a sunken coal barge or snag boat is given steam and slowly lowered in the water, catching hold of and the progress of the work, a buoy is dropped to keep the locality marked.

At the moment of the boat's advance and the lowering of the wrecking hook, the drag chain is also lowered, by the action of the rotary engines. The chain is very long, and is made of links of which a greater or less length can be run out according to the emergency. It is let out and down from the points of the double bows and sinks through the water in the form of a loop. By maneuvering the boat the chain is pushed under or about the wreck as to separate or together with the hook, loop or catch about 20 feet, from which point it descends to the signal to hoist is given.

The manner of procedure is much the same in the case of sunken trees or "snags," in they are called, only that the wrecking hook is not used so freely as the drag chain. When the drag chain catches the snag and brings it to the surface there is frequently a struggle between the hook and the "snag," above which is the upright, heavy "A" shaped iron frame projecting upward from the bows, and it is thus hoisted high and dry. At other times a chain is run out and fastened to the smaller end of the tree-trunk, which is then pulled in by steam power, up over the "butting beam," and thence to anchor the "wrecking hook," which revolves as the load passes, until it is in port or wholly aboard and in the desired position.

Another rather curious fact in her history is that she has been twice cut in two in order to lengthen her, 18 feet being inserted a little beyond the middle at one time and 27 feet a short distance toward the other end. This tributary stream below the Arkansas and Red rivers. The subject of this sketch, a magnificent specimen of her class, is the United States snagboat E. A. Woodruff, of the Ohio river improvement. Its captain is W. H. Christian, of Cincinnati. It patrol is the entire Ohio river from Pittsburgh to Cairo, a distance of 968 miles. Twenty-five thousand dollars runs the Woodruff for a year, taking care of salaries, provisions, repairs, etc. In that time the boat makes two and three round-trip snagging expeditions along the entire length of the Ohio. One hears, commonly enough, of going snagging, of going a-snaggings, and of going a-snaggings, but what is going a-snaggings?

place all the signs are scrutinized and considered. The plan of operation is quickly decided upon and in person put in force by the mate, who conducts the job unless the Captain deems it necessary to add some directions or himself undertakes its superintendence.

In answer to the captain's signal the pilot starts the vessel in the usual adroit manner for the work, now forward and now backward, or veering her sideways now with place all the signs are scrutinized and considered.

As for the "Festa" in Florence, it is a great event among the pleasure-loving children of sunny Italy!

A "Festa" means great singing throngs of people. It means streets covered with networks of lamps, green, white, yellow, red. It means flaming torches climbing like vines up and down and across the buildings. It is a time when the "Palazzo Vecchio" is ablaze; the "Duomo" a nest of fire; the "Campanile" a beacon of flame.

Everyone does his or her "Sunday-go-to-meeting" wearing apparel, and parades the five long days and the white night through. Fatigue is unknown. Instead of weariness, the crowd grows madder as the time slips by. We, like everybody else, attended the "Festa" in Florence, and I don't very well help it, since the "Festa" is everywhere!

What a sight! Flags, and ribbons, and tapestries, and pictures hanging from the windows. Flowers heaped up and raining down from the balconies. Peasants from the hills mingling their picturesque and oft-times fantastic costumes with the more modern and elegant of the city. The streets are filled with the most magnificent of the people of the city.

Of course there is nothing new to be said about picture galleries. There is, in the "Pitti Palace," a splendid collection, mostly of old masters. The palace itself resembles a royal residence, and is a very simple and elegant structure, built in 1440, by Brunelleschi. King Humberto lives here when in Florence, and he has 200 pictures in the gallery, and they are all masterpieces.

There is one odd thing about all these old painters. The majority of people look upon them as if they were dead. As a matter of fact, all of them who were wedded at all were wedded to shrews. Fra Angelico, of course, was "made one" by a monk named Bona. Raphael was married to an idiot named Branda. Michelangelo, like Mr. Parrel, he was a very mysterious man. These for the most part are the men who are called "great" by the world, but who were in reality very ordinary men.

A FLORENTINE FESTA.

Lillian Spencer Takes Her Chances With the Gay Crowds.

GOOD TIME TO STUDY CHARACTER.

Quida's Attempt to Obliterate Florence and the Results.

A TALK ABOUT ART AND ARTISTS

(CORRESPONDENCE OF THE DISPATCH.) "FLORENCE, Feb. 9.—We have had a "Festa" in Florence! And a "Festa" is a great event among the pleasure-loving children of sunny Italy!

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observers" in Florence, does not dress in good taste. She has her gowns from Paris, of course, but they are startling affairs in contrast with the London "slaves" and "slaves" with old point, and a leghorn hat, weighed down with drooping white plumes, looks very well on a fresh checked young girl out for a drive. In fact, she is not exactly a young girl, but at present writing—well, lavender silk and leghorn are not becoming to her style of beauty.

Slaves for Children.—The children who are not running about half naked are dressed like little old women of 40. They wear huge bonnets, short ruffled skirts and white stockings. They are chastely dressed in fact, but their faces are pretty. Their swarthy skins and dusky hair gives them the appearance of little negroes. They don't have the good times that American children have. As they have no candy or toys worth speaking of.

As for dolls—well, of all the hideous, wild-eyed objects I ever saw these Italian dolls take the palm. They are chastely dressed in fact, but their faces are pretty. Their swarthy skins and dusky hair gives them the appearance of little negroes.

The new unionism is spreading everywhere here, and the latest addition to its ranks is the "slavery" slave. The Amalgamated Society of Cooks and Housemaids is the very latest thing out, and they are hard at work, redressing the wrongs of their class, with all the proverbial cleanliness of the new broom.

Slavery in Rebellion.—The new unionism is spreading everywhere here, and the latest addition to its ranks is the "slavery" slave. The Amalgamated Society of Cooks and Housemaids is the very latest thing out, and they are hard at work, redressing the wrongs of their class.

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SLAVEYS TO STRIKE.

The Servants of London Organize an Aggressive Trades Union

TO PUT DOWN THE FLAT SYSTEM.

Won't Endure Them Because They Can't See Their Young Men in Them.

BOUND TO HAVE AN AREA OR A WAR

(CORRESPONDENCE OF THE DISPATCH.) LONDON, Feb. 12.—The London "slavery" is sui generis. There is nothing like her in the world that I know of. You cannot compare her with your American "Bridget," "help," or by whatever name you choose to call that independent young person; nor can you compare the London "slavery" with the Scotch lassie or the French bonna. The "slavery" of the modern Babylon is 'aughty yet 'umble, independent, and, at the same time, servile, and, moreover, she will tell you, "knows 'er place, and means to keep it, too."

Hitherto, the "slavery" has kept herself to herself, she has had wrongs, no doubt, but they were dismissed in the servants' hall, or the back kitchen, and she poured out her secret sorrows in the correspondence column of the Family Herald or the London Journal. All that, however, is a thing of the past. The slavery must march with the times and she has her rights, and she will have them properly attended to, as if she were a free woman, by means of an union.

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THE WITCH OF PRAGUE.

A FANTASTIC TALE, INTRODUCING HYPNOTIC THEORIES.

WRITTEN FOR THE DISPATCH BY F. MARION CRAWFORD,

Author of "Mr. Isaacs," "Dr. Claudius," "A Roman Singer," and "Many Other Stories That Have Taken Rank as Standard Literature."

CHAPTER X.

Urnora laughed at the speech, and then back her dishevelled hair with a graceful gesture. Keyork paused. "You are very beautiful," he said, thoughtfully, gazing at her face and at the red gold lights that played in the tangled tresses.

"Worse and worse," she exclaimed, still laughing. "Are you going to repeat the comedy you played so well this afternoon, and make love to me again?" "If you like. But I do not need to win your affections now."

"Why not?" "Have I not bought your soul, with everything in it—like a furnished house?" he asked merrily. "Then you are the devil, after all."

"Or an angel. Why should the evil one have a monopoly in the soul market? You desire for this man's welfare, most kindly and wisely take steps to cure him of his madness. The delusion is strong, but your will is stronger. The delusion yields after a violent struggle, during which it has even impressed itself upon your own senses. The patient is brought home, properly cared for, and disposed to rest. Then he wakes, apparently of his own accord, and behold, he is completely cured. Everything has been successful, everything is perfect, everything has followed the usual course of such mental cases by means of hypnosis. The only thing I do not understand is the waking. That is the only thing which makes me uneasy for the future, until I can see it properly explained. He had no right to wake without your suggestion, if he was still in the hypnotic state; and if he had already come out of the hypnotic state by a natural reaction, it is to be feared that the cure may not be permanent."

Urnora had listened attentively, as she always did when Keyork delivered himself of a serious opinion upon a psychiatric case. Her eyes gleamed with satisfaction as he finished.

"If that is all that troubles you," she said, "try to may set your mind at rest. After he had fallen, and while the watchman was getting the carriage, I repeated my suggestion, and ordered him to walk without pain in an hour."

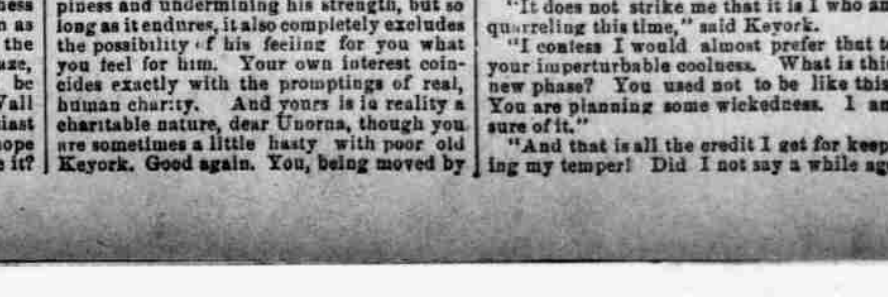
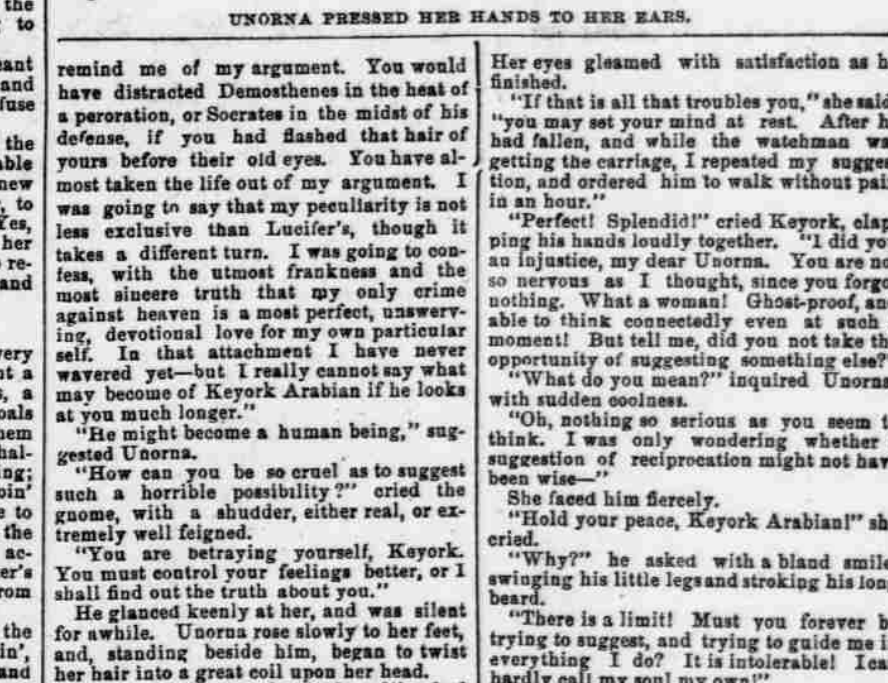
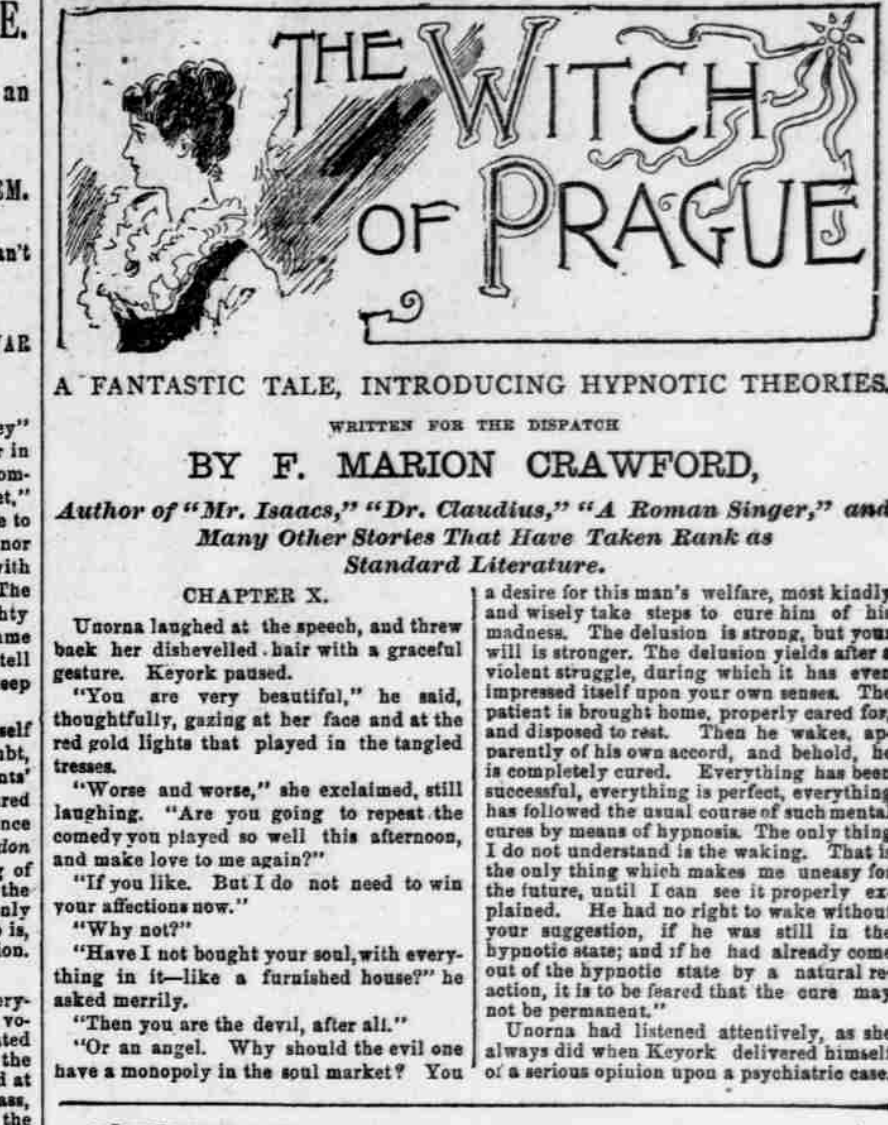
"Perfect! Splendid!" cried Keyork, clapping his hands loudly together. "I did you so nervous as I thought, since you forgot nothing. What a woman! I should be glad to think connectedly even at such a moment! But tell me, did you not take the opportunity of suggesting something else?" "What do you mean?" inquired Urnora, with sudden coolness.

"Oh, nothing so serious as you seem to think. It was only wondering whether a suggestion of reciprocation might not have been wise."

"She faced him fiercely. "Hold your peace, Keyork Arabian!" she cried. "Why?" he asked with a bland smile, swinging his little legs and stroking his long beard.

"There is a limit! Must you forever be trying to suggest, and try to suggest, everything I do? It is intolerable! I can hardly call my soul my own!" "Hardly—considering my recent acquisition of that attachment I have never wavered yet—but I really cannot say what may become of Keyork Arabian if he looks at you much longer."

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TWO SNAGS OUT AND ANOTHER COMING.

say and straighten their paths by freeing the water and the channels from sunken coal barges, trees and snags of every description. Few have an adequate idea of how these obstacles have wrought upon or river commerce, especially in earlier days before our extended inland waterways were as well lighted and patrolled as they are at present.

The Boat Pittsburgh Knows. There are now some half a dozen of these snag boats on the Mississippi river and tributaries. Of these, Macomb's and Wright's are in the Father of Waters proper, while the Meigs, Wagner and Reese are in its tributary streams below the Arkansas and Red rivers.

Another rather curious fact in her history is that she has been twice cut in two in order to lengthen her, 18 feet being inserted a little beyond the middle at one time and 27 feet a short distance toward the other end. This tributary stream below the Arkansas and Red rivers.

One striking and original feature in the vessel's construction is her double-pointed or twin bows, which give her a catamaran appearance. Between these twin bows there extends backward what is called a well. This is a canal-shaped opening which projects backward through the boat's structure some 20 feet, from which point it descends gradually, and through this raceway the water carries away beneath the vessel most of the smaller and unimportant parts of the snags, wreckage and debris. This well is located at the extreme front, about on the water level, and here some of the crew frequently take their position as a convenient point from which to grapple with the snag.

In furtherance of these records they use tools for estimating the weight of what they handle, and all this is stated in their Government reports. In the Mississippi the Woodruff has taken out some big snags. By their record on such day's work in midsummer was the taking out of 13 snags, six of which were over 100 feet long. Another day's record contained 21 snags. The records also showed snags of 127, 145, 146, 130, 115 and 149 feet in length. One was 49 feet long, 8 feet 2 inches through at butt, 4 1/2 feet at top and weighed 198 tons. When waterlogged and loaded down with attaching earth, their weight sometimes reached into enormous figures. In a snag of this kind 116 feet long contained 21 snags. The records also showed snags of 127, 145, 146, 130, 115 and 149 feet in length. One was 49 feet long, 8 feet 2 inches through at butt, 4 1/2 feet at top and weighed 198 tons.

front, across the well, is inserted a large roller which has an important part to perform in the handling of the logs and snags after they are found. Taking our stand either with the Captain or the pilot on the upper deck, we join in watching for a "break"; that is, a surface indication or disturbance on the water sufficiently marked to indicate to the practiced eye that there is something in the nature of a snag or wreck beneath. When the pilot or others discover it as short, sharp white is sounded, and as the boat approaches the

DRAGGING A SNAG OVER THE ROLLER.

shop. The Woodruff has 26 water-tight compartments. These enabled her to go through with a singular experience three years ago, when for nearly the entire season she continued at her work notwithstanding there had been stove through her side and into one of these compartments, a hole 16 feet long and from 1 to 3 feet wide.

Adding to Her Length. Another rather curious fact in her history is that she has been twice cut in two in order to lengthen her, 18 feet being inserted a little beyond the middle at one time and 27 feet a short distance toward the other end.

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FRONT VIEW OF THE SNAG BOAT.

In this view the writer saw a giant snag, 78 feet long and 3 1/2 feet thick at the base, hauled entirely aboard. Then by ax or saw, by hand and by steam, the great tree or snag is quickly demolished, it being cut into pieces convenient to handle and dispose of. The small pieces and refuse are allowed to drop into the well, and as they descend they are carried by the current under the boat. The logs, and especially the stump and spreading roots, are deposited out of the way along shore.

The largest snag ever found in the lower part of the river, and the largest of all in the Mississippi. The clerk of the boat is required to keep a minute and methodical record of all their operations. During the day when I was aboard, the Woodruff, up to 4 P. M., took out of the river, between Steubenville and Warren, O., the following articles, viz: The remains of Horace and Robert, coal barges, No. 53 from below Mingo Island; an oak tree 18 feet long and 1 1/2 feet through at the butt; an apple tree 14 feet long and 8 inches through; an oak 22 feet long, 1 foot 8 inches through at the butt, and with 6 feet spread of roots; an elm 50 feet long by 3 feet through and 18 feet spread of roots; an elm 42 feet long, 2 feet through and 10 feet spread of roots, and with two arms, one 28 feet long and the other 10; an elm 45 feet long, 1 1/2 feet through and 5 feet spread of roots; an oak 50 feet long and 2 1/2 feet through, and a giant asycamore 78 feet long, 3 1/2 feet through at butt and 1 1/2 at top, and with 8 feet spread of roots.

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THE ENORMOUS BUTTLE.

The shopkeepers were a numerous and interesting. They appear on the scene about noon, after the morning's work has been done and the iron shutters barred. They are dressed as companions by their entire families, the bambinos and array walk they drag them along by the fat, brown arms, or carry them. The costumes worn by these people are of the most grotesque and interesting. They are peasant gowns and array hats and the poke and array hats. But the Italian ladies seem perfectly oblivious to the fact that fashion, like everything else, is subject to change.

Ever Ouida, who is the "observed of all

observers" in Florence, does not dress in good taste. She has her gowns from Paris, of course, but they are startling affairs in contrast with the London "slaves" and "slaves" with old point, and a leghorn hat, weighed down with drooping white plumes, looks very well on a fresh checked young girl out for a drive.

Slaves for Children.—The children who are not running about half naked are dressed like little old women of 40. They wear huge bonnets, short ruffled skirts and white stockings.

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FLORENCE'S LIVELY RECEPTION.

A Follada Prepared for Him in Memphis Just After the War.

The most exciting experience I ever had in the state occurred in Memphis during the winter of 1867, says W. J. Florence in the St. Louis Globe-Democrat. I was killed to appear in the Memphis Dollar, and while on my way to Memphis, in the