### NEW FORMS FOR BOATS.

Two boats have been recently chronicled in the papers extent ruled all ship building from the day of Noah down. and cosmopolitan experience. For much as models vary, they all seem to be planned on one principle—the boat must take deep hold of the water; less, with the occult or unknowable. A pleasant mannered float her without watching for the tide.

same way, or is it one of the nursery legends which have their visit to the quiet little dressmaker was followed by the come down to us by inheritance, and with which, when we rapid disappearance of their warts. There are reasonable learn to go it alone, we can dispense? The two plans of and sensible men living who will aver that they cured their boats to which reference has been made turn our attention warts by stealing, unobserved, a bit of fresh meat, rubbing toward this matter. The first one was evidently intended it on the warts, and burying it in the ground. In cases of only as a pleasure boat, and to be of small size, but it was threatened tetanus, caused by a foot wound, the drinking original in its design. It was to have the general propor- of water in which vinegar-rusted nails have been stirred was tions of a catfish, that is, the bullhead of Connecticut, or formerly adjudged to be a specific, and there are persons minister and hull pout of Massachusetts, the Amiurus nebu who will readily give testimony to this effect. In this case losus. This brings the bow broad and flat, the breadth car- it is not impossible that the iron tonic may have been adried very well forward, and gently rounded up only, while vantageous. aft it tapers to a narrow waist and wedge like stern, with It may be difficult to draw the line between the effect of nothing there to make her drag water in the least. The medicaments on the human system under certain known greatest breadth, away out, quite near the bow, will be laws and the mental influence of belief and desire on the about one-fifth the length of keel.

hoped that its results, whether satisfactory or not, may be do not eliminate a belief in faith cures or remedies. made public. The trials which fail are of perhaps the most interest and advantage to every one except the originator.

In the other case there was not absolutely anything new. It was a small steamer constructed for a sugar estate on the sun is run, but to the machinery to be run in the future by Magdalena River, and to secure a sufficiently light draught the sun. Yes, we are speculating again as to those wasted her beam was about one-fourth of her length, with full hear-powers of nature which we have had under consideration ings carried well fore and aft, yet without a really flat hot-several times of late. The idea of allowing any force which croscopically. He found that the Saccharomyces cerevisia put tom, fine lines being her general characteristic. With a we can use without expense to escape our grasp is exceed into the dough very soon disappeared and numerous mi-

the swarms of Mississippi hoats built to "run anywhere another. May be some good may come of it. that the ground is a little damp." But the peculiarity of this new craft is that she is to be run out to the Magdalena on heat to the moving of machinery; why should we not use of these microbes. An analysis of the gases evolved during her own merits, by her own power. And there is where the that heat directly instead of mediately? We have learned to fermentation proved the presence of 70 per cent of carbonic difficulty seems to come in, and so much so that the cap- harness the lightning to our car; we have just as good a acid, while the rest consisted of hydrogen and nitrogen. The tain is guaranteed a special extra payment if he makes the right to yoke in the sun's rays, and not merely take pictures composition of these gases is similar to those formed by the trip successfully. It is apparently taken for granted that with them, but send our spindles flying and our cars rolling putrefaction of albumen. the long surges of the Atlantic, and perhaps in particu-forward by their power. There is nothing new in this. The lar of the Caribbean, will pitch her about and drive her thought has often been suggested and the attempt made, does not consist in liquefying the starch by alcoholic ferbefore them at such a rate that she can never give a good and it is partly to take note of what has been already mentation, but in the conversion of one portion of the inaccount of herself.

Because for sooth she does not go down into them, but the subject now. floats lightly over them, they will knock her here and there

No one can stand well forward and watch an ordinary steamship as she is plunging into a heavy head sea, and see her come rushing down a long swell through the trough, without being conscious of the terrible strain which comes upon her, as she buries herself in the next sea before she then eventually sbe lifts and goes over.

If now instead of this knife edge she had had the breadth forward which would have rendered impossible any such or where the planer and the lathe ask for hundreds of horse depth of submersion, whose amount of displacement would power behind them to give them life and activity. On the have sent her over the coming sea when instead of plunging thirty feet down into it she had hardly buried herself a fiery heat of the sun scorch your face before his disk has her timbers would not have been avoided? We are per- And still further, you may watch week after week, and fectly well aware that we shall at once be told that all this month after month, and never see a cloud such as the pro-converting it into sugar. Twenty or thirty cubic centimequestion of bluff bows and sbarp bows has been settled phet saw, "like a man's hand." Solar engines might indeed ters of milk are sufficient to prove this assertion. years ago, that every one knows sharpness and speed are seem easy of construction there, but-cui bono? Jackass keel or its equivalent is indispensable. Very good! Per- as you sit and rock to and fro in your scorching saddle the haps all this may be so, and then again perhaps it may not. whole day through. by and by we may give the reasons for what we believe as favored lands. But there are exceptions. Ever since the will regret to learn of the death from typhoid fever of Mr.

# FAITH REMEDIES.

by practices by sensible people which are considered by made. them to be of such an occult or doubtful nature as to be concealed, usually, for fear of ridicule. It is not uncommon the direct rays of the sun by concentration through the now for persons to wear around the neck a suspended minia- agency of reflectors. This perhaps will persistently remain ture sachet of silk containing gum camphor as a defense the most available means, as it certainly has the great advanagainst fevers, measles, and small pox. A string of red tage of cheapness of apparatus. Were it not, however, for coral beads, or in lieu thereof a bit of scarlet yarn about the great expense of the instruments, convex lenses would the State of Missouri. The stone is very peculiar in its the neck, is even now considered a necessary protection of demonstrably accomplish very much more work within a structure and properties. Its cutting power is diamondthe infant from various ills. Some persons who are periodic given space than has ever yet been achieved with reflectors. like, cutting away steel very rapidly, and still retaining an cally afflicted with rheumatism carry either a small potato Will not some inventive soul set himself to this task of exceedingly fine edge.

dreaded foe. This sort of nonsense is not confined to the moderate cost? We shall see a use for them as we go on which make in each case a decided departure from the old vulgar or ignorant, for in at least two instances one was a type, and we may say the stereotype, which has to a certain | doctor of divinity and the other a man of liberal education

The cure of warts has always been associated, more or and especially is this held to be true in the rough service of young woman who made no pretensions to unusual skill and It is even probable that polygonal surfaces, without curves the open sea. In any one, for instance, of our splendid medical knowledge, was for years the resort of all the wartocean steamers, her breadth of heam does not much exceed afflicted in the town and vicinity. Speaking from youthful one-tenth of her length, and of course therefore her draught memory, what she did was to take the number of the warts investigation practically, as we will see. is so great that Sandy Hook scarce gives water enough to given her by the patient or an accompanying friend, and that was the sum and substance of the prescription. There Now, is this necessary? Are we bound to go on in the are plenty of her patients, however, who will swear that

physical body. Whether mental emotion or intelligent What this peculiar build will do remains to be seen. It faith does really affect the animal portion of the human strucis certainly unlike any ordinary model, and it is much to be ture or not, it is a curious fact that education and culture

### SOLAR MACHINERY.

No reference is made here to the machinery by which the This for river navigation is nothing special. We all know bave glanced cursorily at one: it will do no harm to call up

done, and partly to look a little away ahead, that we bring up

like a bubble. Well, let them knock. What barm will it mon, summer days strike with so much energy, and in fact do? If she has strength to stand the run of the sea, why cause us so much suffering by their intensity, that no one should she not be lifted easily above it, instead of having would think of questioning the assertion that were they conevery timber wrenched and strained in the effort to come up centrated, say only four or five fold, on a proper receptacle, its contained water would boil with violence, and steam for mechanical uses be generated abundantly. But those days are relatively, in our latitude, of small number, and on any one of even this number clouds are liable to intercept the brightness and the burning heat.

Still, there are regions in which the heat is always great, hegins to rise. Her sharp bow cuts into it like a knife, and and where clouds are rare, and it is in those that the greatest away down, down, she goes before her displacement is able benefits are easily available, and it is to those that attention to overbalance her weight and her downward plunge, and has hitherto been chiefly turned. But alas! those are not the regions in which power is mostly needed. They are not where the cotton mill is playing with its looms and spindles, dreary wastes of Nevada, Arizona, etc., you may feel the fathom, what laws of hydrodynamics will show that in risen half its diameter above the edge of the desert, and this latter case a decidedly important part of the strain upon then that heat increase hour after hour with fearful force. but convertible terms, and that for sea going craft the deep rabbits and horned frogs are all the life that is visible to you

We are entitled to our own free judgment, and some time; And that is too much the condition of most of those sun- wagner, the extensive florists and rose growers at Rochester, A. French have had possession of Algeria, they have been Henry R. Ellwanger, after a four weeks' struggle with the favorably situated for working out the very problem we disease. Although but thirty-three years of age, Mr. Ellhave before us. Nor have they been idle. For years ex-, wanger had become the acknowledged authority on the sub-It is unnecessary to resort to some collection of anecdotes perimental work has been going on, and some very interest-ject of roses in the United States. He was the author of a relating to old-time superstitions to show how great an in- ing and to a certain extent satisfactory results have been work entitled "The Rose," published last year, which esfluence faith or fancy may have on the human mind, and attained. The same thing has been done in British India, tablished his reputation, and the Century for July contained act through the mind on the body. The faith cures though they have less of cloudless sky than in the African an illustrated article entitled "Old and New Roses," which which are a portion of our current news are supplemented regions, and apparently not as good progress has yet been has attracted wide attention. This was the young man's

The prevalent idea in all trials thus far has been to utilize

or a horse chestnut as a charm against the attack of the devising some way of constructing leves of great size at a later to look at the possibilities of solar energy, even for our cool and cloudy regions. No absolute degree of perfection in their form is requisite; nothing like achromatic conditions; only the power of concentration to a moderate focus, though of course the sharper and more definite the better. of any sort, may be made available, and if so, great diameters may be easily reached. This is a thing well worth

> The results in Algeria have led to a practical trial being made, not under the scorching sun of Africa, but further north even than we are, in the Garden of the Tuileries, Paris. It was on the 6th day of August of last year. The apparatus of M. Pifre, of Algeria, was adapted for use in the French capital. A reflector in the form of a hollow cone, three and one-half meters in diameter, was used to concentrate the solar rays on a vessel for the generation of steam. This steam drove a small printing press, and though the day was not hot, and clouds frequently obscured the sun, the press ran steadily from one o'clock till half past five, and printed on an average five hundred copies of the Soleil Journal, a paper specially prepared for the occasion. The cross section of the reflector of course comprised a little over a hundred square feet, and the power secured from this under these circumstances is indicated by the work stated above.

> This is not by any means an insignificant showing. It is true no great results will be manifested from it for some time to come, but the future possibilities are there, and by and by they will be worked out.

#### Fermentation of Baker's Dough.

It has hitherto been supposed that the fermentation of bread dough set up by sour leaven, or beer yeast, was a real alcobolic fermentation. We learn from a paper in Comptes Rendus, that G. Chicandard bas investigated the subject milength of 54 feet her extreme draught is to be only two feet. ingly unpleasant, and yet we are doing it constantly. We crobes, which he took for bacteria, made their appearance. These bacteria multiplied with great rapidity on the yeast in dough, and they can be cultivated in water containing yeast. The use of wind power is an indirect application of solar Hence he concludes that the beer yeast favored the growth

> From this it would appear that the fermentation of bread soluble albumen of the gluten first into soluble albumen and then into peptone. Starch is first decomposed by heat The direct rays of the sun in one of our hot, or even com- in the process of baking, forming soluble starch and some dextrine. The cause of the fermentation is, however, a bacterium.

# Nitrogenous Ferments in Human Milk.

Bechamp has published a paper in Comptes Rendus on milk, in which he says that cow's milk contains two distinct albuminous substances besides caseine. One of these remains insoluble in alcohol after it has been precipitated by alcohol, and is an enzymotic substance which possesses the power of liquefying starch without first converting it into sugar. Dumas and Cahour have already proved that the enzymotic constituent of woman's milk possesses much greater power than that of cow's milk, nearly equally to diastase.

Bechamp isolated the enzyme by the following process: normal slightly alkaline woman's milk was carefully acidified with acetic acid, and then at least three times its volume of 95 per cent alcohol was added. The very bulky precipitate was collected on a filter, washed with weaker alcohol to remove the milk sugar, then with ether to remove the fatty portions, and then taken up with distilled water. After a few hours it is filtered. The solution thus prepared possesses to a high degree the property of liquefying starch and

# Another Valuable Life Ended.

Many persons who have had dealings with Messrs. Elllast work.

# Adamascobite.

Adamascobite is the local name of a mineral which is said to be found in only one place in the world, and that is