

LIST OF PATENT CLAIMS Issued from the United States Patent Onfe FOR THE WEEL ENDING SEPTEMBER $20,1833$.



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des.

 scribed.
shecond, the making of the inside of the garnature, or
the part the gate next the ids., or both, of such a cur.
vature or form, that the water at the upper part of the the part of the gate next the disc, or both, of such a cur-
vature of orm, that the water at the upper part of the
strean or treams where it leaves the gariture orgate,
will have a downward motion, or a direction inclining to





 or streams, be efrestriking the floats, and continuing thi
converging into the whee to about one half the distanc
from the inner to the outer edges of the rims of the
wheels.















 other means of varying the width,
of strams whic enter the wheel.
Fourthy, the combination of the



 to such turbines or hy hraulic motors as as alscharge the
water t their peripheres, but 1 extend the to such as
have the waterentertheir wheels at their peripheries.





their concave sides, as described, though $I$ do not limit
my claim exactly to any curvature of the foats, but ex.
tend iat ext




















































 therefrom, entirely around and against the side of the
drill hole, hwereby the enlargement of titinto a suitable
charge hamber may be speedily effected.

ded in its diameterfromabove the fre box, to its termina-
tion, is connected to a stam chamber or receiver out.
iede of or exterior to it, arranged in the manner describ.
ed.
 Co. N. C. I claim an adjustable apparatusfor sawing out
the grooves or flllets in water whelf for the reeption of
he buckets composed of a two edged saw spruak bet ween






## Preservation of the Eyes.

Messrs. Editors-An article in No. 51, Vol. 8, "Scientific American," having the above title, interested me much, as it is a subject that has occupied some of my attention. In my researches on this subject I have come to a different conclusion, in some respects, from that le. Which on the mind by reading your artisaid, I have had some confidence in properly rubbing the closed eye balls. If rubbed gently, or rather pressed from the temples towards the nose, in such a manner as shall have a tendency to keep up their roundness, by pressing the
eye-balls (not on their surface, which will only eye-balls (not on their surface, which will only sight) against the nose as much as possible, but not so as to injure them by hard pressure, the sight may be preserved in this way to old age. It is said that this is the way that J. Q. Adams preserved his sight until he died, having no need of glasses. Also my grandfather, who died at without glasses, having never used them. He said that at fifty years of age his eyes began to fail him, so that he felt the need of glasses; but hearing of the above remedy, applied it, and soon found his eye-sight improving, so that at sixty he could see as well as he ever could, and never lost his sight again while he lived. By severely taxing the eyes by reading or writing great deal by candle or lamp light, the tendener to adjust itself to distances. Anything that has a tendency to flatten the eye-ball throws the focal distance further off. Rubbing the eyeballs, as is usually the case with most people, and especially those of weak or inflamed eyes is
exceedingly injurious. If they rub them at all let care be taken not to rub them on the pupils, but press them gently towards the nose, so as not to flatten them, but to preserve their round. ness. The reason why so many young people lose their eye-sight, I think, may be attributable to two causes, namely, over-taxing them, which
makes them painful, and then rubbing them. If these two evils are guarded against, I think there would not be such demand for glasses. I would recommend those who are naturally short-sighted, to take Ball's eye-cups, and draw a piece of thin india rubber over one end, instead of the balls; the.l tie it over the eye so as to press gently upon the eye-ball, and wear it 5 or 10 minutes bef re going to bed; this
will flatten the eye-ball, and thus lengthen the focal distance.
Elyria, O., Sept. 1853.
Singnlar Plan for a New Line of steamships.
Messrs. Editors-Being a subscriber to your valuable paper, and admiring the manner of your dealing with new suggestions in science,
arguing dispassionately, and giving reasons for arguing dispassionately, and giving reasons for ties, I take the liberty of sending you the following for thy opinion. Seeing the gigantic efforts of late for rapid and safe communication between the nations of the earth, I am induced to make the inquiry-" Would it be possible to construct a 'train' of steamers, say of 25,000 feet, or more, by connecting a number of ves-
sels by joints, so as to make it one great flexible vertebral column;"-of course there could be no stem or stern, as at present, to each vessel, only batted to each other and secured by a large band of India rubber, say ten or twelve inches thick, by three or four feet wide, all round inside, with a close ladder of strong slack chains all round outside, with as many pairs of steam paddles along the 'train' as would be thought necessary. The question arises, could it be
ridge and hollow of large waves in rough weather, and also be under command for alteration of course, \&c. I take it there would be room enough on the line without danger of running off. I need not enter into the many details that would suggest their adoption, except merely to say the india rubbber bands might be secured by broad washer plates, with some substance between, say leather or gutta percha to preserve the india rubber.
Clonmell, Ireland, Sept. 8, 1853.
[Provided the plan proposed by our correspondent were carried out-a band bridge of ocean steamships-we do not see what benefits could be obtained-what evils such a line would emove, or what new objects it would accomplish. Such a line of steamship, however, would be èntirely impracticable.

## Labor and Money Power.

The eloqent Rev. Mr. Chapin, thus speaks of the achievements of labor. He asks " who can adequately describe the triumphs of labor, urged on by the potent spell of money. It has extorted the secrets of the universe, and trained its powers into myriads of forms of use and beauty. From the bosom of the old creation, it has developed anew the creation of industry and art. It has been its task and its glory to vercome obstacles. Mountains have been levelled and valleys been exalted before it. It has broken the rocky soil into fertile glades; it has
crowned the hill-tops with fruit and verdure, and bound around the very feet of ocean, ridges of goldencorn. Up from the sunlees and hoary deeps, up from the shapeless quarry, it drags its spotless marbles, and rears its palaces of pomp. It tears the stubborn metals from the bowels of the globe, and makes them ductile to its will. It marches steadily on over the swelling flood, and through the mountain elefts. It fans its way through the winds of ocean, tramples them in its course, surges and minges them with flakes of fire. Civilization follows in its paths. It achieves grander victories, it waves more durable trophies, it holds wider sway than the conqueror. His name becomes tainted and his monuments crumble; but labor converts his red battle-fields into gardens, and erectsmonuments significant of better things. It rides in a cha riot driven by the wind. It writes with the light ning. It sits crowned as a queen in a thousand cities, and sends up its roar of riumph from a million wheels. It glistens in the fabric of the loom, it rings and sparkles from thesteely hammer, it glories in shapes of beauty, it speaks in
words of power, it makes the sinewy arm strong with liberty, the poor man's heart rich with content, crowns the swarthy and sweaty brow with honor, and dignity, and peace.

## An Important Fact in Connection with the

 Yellow Fever.The New Orleans "Delta" states that Capt Baxter, of the steamer. "Cherokee, left that city on the 12th of last. month, when the epi edemic was at its height, with one hundred and sixty-nine passengers, the majority of whom were unacclimated, and liable to the yellow fever. When the Cherokee emerged into the Gulf, the sea was rough, and the passengers suffered a great deal from sea-sickness. Every one of them were compelled to vomit, and the Captain says he never bad a more unanimously sick set. Soon, however, it was all over, and health and hilarity reigned on board, when the yellow fever made its appearance among the crew, none of whom had suffered from sea-sickness. During the voyage, there wers ten of the crew down with the fever, and on the arrival of the Cherokee in New York, there being two still sick, they were ordered into the hospital, where one of them died. The other recovered. Not one of the passengers had the fever. They were all permitted to land in New York after eighteen hours, and the sick members of the crew were alone compelled to go in to the hospital detention. Hereis an interesting fact for the doctors. A general vomiting saved over one hundred persons from a disease which attacks nine out of ten of the unacclimated. Is not, too, the universality of the sickness a fact of some significance from which the physicians may extract some light on the subject of the character of the disease ?

