# The Christian Messenger.

ALMANAC FOR SEPTEMBER.

First Quarter, Sept. 7th, 5h. 23m. afternoon. Full Moon, "15th, 8h. 27m. merning. Last Quarter, "22nd, 2h. 46m. morning. New Moon, "29th, 8h. 41m. morning.					
Day Wk	Rise Se  5 26,6	34 17 15	South 18	Sets at	Halitax.
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30 Th.		39 7 19	A. 37		8 14

THE TIDES .- The column of the Moon's Southing gives the time of high water at Parrsboro', Cornwallis, Horton, Hantsport, Windsor, Newport, and Truro. High water at Picton and Cape Tormentine,

2 hours and 11 minutes later than at Halifax. At Annapolis, St. John, N. B., and Portland Maine, 3 hours and 25 minutes later, and at St. John's, Newfoundland, 20 minutes earlier, than at Halifax. At Charlottetown, 2 hours 56 minutes later. At Westport, 2 hours 54 minutes later. At Yarmouth, 2 hours 20 min-

FOR THE LENGTH OF THE DAY .- Add 12 hours to the time of the sun's setting, and from the sum subtract the time of rising. FOR THE LENGTH OF THE NIGHT -Subt. ac. the time of the sun's setting from 2

hou. and to the remainder add the time of rising n. x morning.

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HALIFAX, March 10th, 1873.

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Dear Sir .- Having used a half dozen bottles of your valued Pectoral Mixture I find myself greatly relieved from a chronic chough, and pulmonary weakness which had been preying upon my system for over a year, and would recommend it to all who are suffering from like complaint GEO. L. FELLOWS.

St. John, N. B., April 16th, 1874.

This is to certify that I was attacked with a very severe cold combined with the Asthma very bad, so that I could not lie down or hardly breathe. One bottle of the cough medicine prepared by J. BETCHER, Esq., of Halifax, N. S., relieved me, and five bottles completely cured me so I have not been troubled with the Asthma since, and I believe it to be the best medicine for Coughs, Colds, Asthma, &c., that there is made. JOHN N. DEARBORN.

Aug. 12.

### CONSUMPTION CURED.

To the Editor of Christian Messenger. ESTERMED FRIEND:

Will you please inform your readers that I have a positive

CURB FOR CONSUMPTION and all disorders of the Throat and Lungs, and that by its use in my practice, I have cured hundreds of cases, and will give

\$1,000,00.

for a case it will not benefit. Indeed, so strong is my faith, I will send a Sample, free, to any sufferer addressing me. Please show this letter to any one you may know who is suffering from these diseases,

and oblige, Faithfully Yours, DR. T. F. BURT. William Street, New York. Aug. 5.

#### Science.

NEW BURN MIXTURE -Take the it into small pieces, add to it 2 pints cold water, and allow it to become soft. fluid ozs, glycerin and 6 drachms car. bolic acid, and continue the heat on the water bath, until a glossy, tough skin begins to form over the surface in the intervals of stirring. The mixture may be used at once, after the glue is melted and the glycerin and carbolic acid are added; but when time allows, it is advisable to get rid of a little more of the water, until the proper point is reached. On cooling, this mixture hardens to an elastic mass, covered with a shining parchment like skin, and may be kept for any time. When using it, it is placed for a few minutes on the water bath until sufficiently liquid for application (it should be quite fluid). Should it at any time require too high a heat to become fluid, this may be corrected by adding a little water. It is applied by means of a broad brush, and forms in about two minutes a shining, smooth flexible, and nearly transparent skin. It may be kept for any time, without spoiling, in delf or earthen dishes or pots turned upside down .- American Journal of Pharmacy.

What kind of gas are toy rubber balloons inflated with? How is it generated? A. The gas is hydrogen; it is obtained by acting upon small pieces of zine with dilute oil of vitriol.

Can an ice boat travel faster than the wind? A. Ice boats very frequently travel at a faster velocity than the wind that drives them - Scientific American.

A BRILLIANT LIGHT .- Fill a small vessell of earthenware or metal with perfectly dry saltpeter or nitre, press down a cavity into its surface, and in this cavity place a piece of phosphorous; ignite this, and the heat given of melts a sufficient quantity of the niter to evolve oxygen enough to combine with the phosphorus, and the effect is to produce the most magnificent white light which chemistry can afford .- Photographic News.

Do not kill the toads. In Paris, they are sold at at fifty cents a dozen, in order to protect vineyards and gardens from insects. A toad will swallow the biggest kind of a tomato worm.

Common coal oil is an excellent mosquito bar. Drop a little on a piece of cotton, squeese as dry as possible, and rub over the exposed portions of the body. The smell of the oil disappears in about five minutes, and no mosquito will alight upon the annointed places. This is said to be better than pennyroyal essence for the same purpose.

NEW PLAN FOR PROPELLING CANAL BOATS .- A novel method of propelling canal boats has lately been introduced with the brush. Then sprinkle on the in Belgium, as follows; The towpath is emery, and let it cool. laid with a single rail, weighing some 16 lbs. to the yard, and fixed on traverses a little more than three feet apart. The locomotive has four wheels, two of which are placed directly along the axis of the vehicle, one in advance of the other, and the others one at either side. The first pair are directing and the second driving wheels. The directing wheels are grooved and fit the rail; the others have rubber tyres, which give purchase on the macadamized road. Each locomotive tows one boat, and when a meeting takes place of two travelling in opposite directions, the engines change boats and two chickens till tender; take out all retrace their paths. The locomotives the bones and chop the meat fine; seaweigh four tuns each, and travel about three miles an hour, with full boats carrying a cargo of 150 tuns each.

Yellow stains commonly called iron mold are removed from linen by hydrochlorie acid or hot solution of oxalic acid. Wash well in warm water afterward.

To preserve soap grease, fill a cask half full of good strong lye and drop all refuse grease therein. Stir up the mixture once a week.

An obdurate screw may sometimes be drawn by applying a piece of red hot iron to the head for a minute or two,

of chloride of calcium, dissolved in twice their weight of hot water, is a England kitchen as does bread to fireproofing mixture for fabrics.

# Agriculture.

GYPSUM AND ASHES are valuable in best white glue (extra) 15 ozs. Break | the compost heap. Twenty pounds of plaster to each good load of manure is sufficient, since one hundred pounds of Then melt it on a water bath, add to it 2 gypsum will fix twenty pounds of ammonia. Quicklime should not be used with fermenting manure, since it sets the ammonia free, instead of fixing it. Ashes contain largely phosphoric acid and potash. When leached, the phospheric acid remains, and also a good deal of the potash. The phosphoric acid is in a finely divided state, and in combination with peroxide of iron, magnesia and lime; so the carbonic acid generated in the compost pile will liberate it from its bases, and render it immediately available to plants.

> DISCOVERY OF ANOTHER GROVE OF GREAT TREES IN CALIFORNIA .- This waters of the Lorenzo and Boulder creeks. One of the trees eclipses all that have been discovered on the Pacific coast. Its circumference, as high as a man can reach, standing and passing a tape line around, is a few inches less than 150 feet. This is beyond the measurement of any tree in the Calaveras Grove. The height is estimated at 160 feet, and a part of the top lying on the ground is over 100 feet in length. The other trees in the vicinity are not so large, but all are of immense girth.

To MAKE VINEGAR RAPIDLY .- The best plan will be to set the casks in a sunny place, open the bungholes, and S. School Reward Cards, Children's Tracts, cover them with a piece of mosquito &c. net, to admit air and exclude insects. If a gallon of good cider vinegar, with the "mother" in it, is turned in, it will make sooner. The "mother" is the slimy cake that appears in vinegar during the souring, and it consists of peculiar fungus, known generally as the "vinegar plant." If a tin pipe be put into the bunghole and into the vinegar, and fresh air be blown into it through a pair of bellows, the process will be hastened. Also by boring a small hole in the head of the cask, and allowing a small stream to run down a sloping board into an open pail, which, when full is poured back gently into the cask. This process greatly hastens the making of vinegar .- New York

Save the corn cobs for kindlings, especially if wood is not going to be plentiful next winter. To prepare them, melt together 60 parts resin and 40 parts tar. Dip in the cobs, and dry on a sheet of metal heated to about the temperature of boiling water.

A remedy for caterpillars which is Chester-Rev. I. J. Skinner used on a large scale in France, consists in a solution (1 part in 500) of sulphide of potassium, sprinkled on every tree by means of a hand syringe.

To fasten emery to leather, boil glue very thin, add a little milk, raise the pile of the leather, and put on the glue

#### DOMESTIC RECEIPTS.

MUTTON PIE WITH TOMATOES .-- Pare and slice six tomatoes; put a layer into a deep pudding dish, then put in a layer of slices of cold mutton, and dredge in flour, salt, pepper. Have the last layer tomatoes, over which sprinkle two rolled crackers. Bake one rice, green corn, shelled beans.

CHICKEN CHEESE .- Did you, reader, ever eat any? We like it. Boil son to taste with salt, pepper, and butter; pour in enough of the liquor they are boiled in to make moist. Mold it in any shape you choose, and, when cold, turn out and cut into slices. It is an excellent travelling lunch.

To cook RICE .- The fellowing is a method recommended by the French Academy for cooking rice during the seige of Paris. Take one cup of rice and one-fourth of a cup of water in a saucepan, cover, and place over a good fire; after an hour, the water will be evaporated, and the rice cooked tender, but dry, and with the grains distinctnot in a paste. Care should be taken not to disturb it while cooking. The Boston Medical and Surgical Journal and immediately using the screw driver. says that rice cooked in this manner, which is the same as that employed in Equal weights of acetate of lime and the East Indies, bears the same relation to the indigestible paste of the New boiled flour.

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