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NEW YORK, SATURDAY, OCTOBER 27, 1883.

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SUCCESSFUL TREATMENT OF CHOLERA.

The rapidity with which this dread disease accomplishes its work renders any treatment most acceptable which is likely to prove successful, and hence the value of the recent communication of Dr. John Chapman to the Journal de Medecine, of Paris. Believing 'that the proximate cause of all the phenomena of cholera, before the stage of reaction, is hyperæmia (active sanguineous congestion), with consequent excessive action, of the spinal cord and of the ganglionic or sympathetic nervous system," the characteristic features of the doctor's treatment consisted in the application of heat to the general surface of the body as persistently as possible, and, simultaneously, the application of cold by means of a spinal ice bag along the whole of the spinal column which is coextensive with the spinal cord, and that part only, during the presence of vomiting, purging, cramps, or algidity. After the symptoms have been subdued and reaction established, the reaction is controlled, if it becomes necessary, by the application of heat along some part or the whole of the spine.

At Southampton, in 1865, five patients out of seven recovered under this treatment, and of the two fatal cases one was an habitual drunkard and the other a woman aged 73. and who had been living at the starvation point up to the time she was attacked. Each case presented in a decided form the cardinal symptoms of cholera, namely, vomiting, purging, cramps, and excessive cold of the surface of the body.

With this treatment 28 per cent proved fatal, and with the ordinary methods 62 per cent proved fatal. The variations of temperature were from not lower than 32° Fah. to not, necessarily, higher than 120°.

. -----FUSIBLE SAFETY BOILER PLUGS.

These handy contrivances are in use generally, their office being to give notice of lowness of water that may be dangerous. They are usually made of "composition"-brassquite hard, and have a drilled hole from end to end, the entire length being sufficient to pass through the shell of the boiler and project far enough beyond the inside surface to be above the sediment or scale. The lower end is formed into a bolt head, and the shank is threaded and is screwed into a tapped hole over the fire-box, in the crown sheet. The Locomotive sustains the rule of the United States Steamboat Inspection service as to the fusible filling, which shall be of pure Banca tin.

To this filling there may be objections, and possibly objections may be found to any fusible composition. It is possible that the experience of engineers, as accumulated, proves that the "life" of easily fusible metals is destroyed under certain circumstances. At-all events, it can be readily substantiated by facts that easily fusible plugs have refused to act under the most exacting circumstances after having been in use two years-sometimes less.

plug once in six months or once a year. But perhaps a better method would be to discard the use of brass-composi-ployment and ability. The ordinary day laborer, in all tion-and substitute wrought iron, of a similar character to trades, gets from 2s. 6d. to 4s. a day, and foreigners who that of the boiler plate. Tin is the core to be fused. It is arrive by shoals manage to save something to take home. surrounded by brass, a compound of which tin is an important component. With the action of heat there may be a chemical action that destroys or impairs the fusibility of the tin; experience seems to point this way.

The recommendation of the Locomotive that the core for receiving the fusible filling should be tapered from the inside of the boiler to the outside of the plug, the larger diame- are, on the lists of those receiving charity, five times as ter being inside the boiler, is a reasonable one, and will many mechanics of the best paying trades than those commend itself to engineers.

PREPARING FOR THE ICE CROP.

attention to making preparations for gathering their annual save enough. crop of ice. The plans for building ice houses differ widely in the various sections of the country, and in many instances are controlled by the wants and financial ability of the and charities. There are nearly twice as many women regbuilder. The double walled, with the space filled with sand istered as recipients of charity as men, the total being upor sawdust; the solid thick wall of brick or masonry; the two ward of 40,000 women, of whom 5,000 are day workers, walls, each only a single brick thick, with an intervening 2,298 servants, 1,500 sewing women, 1,200 dressmakers. air space; those on the surface, those half below, and those completely buried with the exception of the roof-all these being 12 hours all through the week, paid to Berlin stoneand many more find strong advocates. In most of the cases | masons vary from 15 to 28 marks (a mark is about 25 cents the houses are erected by one who follows his own free will, of our money); to turners about 20 marks; gold and silver

ice water, the ice having been taken from ponds where incoming water flowed over beds of decaying sawdust.

That the drainage from barnyards is likely to prove harmful is self-apparent, and it is hardly necessary to state that it should be kept out of the ice pond, yet there are many barns located directly on the bank, near the very edge. Because in times past the gantlet has been successfully run is a poor excuse for still inviting the danger. The washing from a pigsty is undoubtedly the worst of the kind, and it should never be so situated that any part of its filth can by any possible path find its way into a body of water used for drinking purposes during either the summer or winter. The habit of placing vaults on the banks of a small stream cannot be too strongly condemned, and although they may be below the spot from which water or ice is taken, and so save the owner, they menace his neighbor, who may be many miles down stream. If quite near the pond the land upon which they are built should be examined, lest the contents find entrance through the soil. The germs of disease are liable to be transmitted from them.

It is always a safe rule to discard ice from water that cattle refuse to drink. But this test is by no means sufficient, as the clearest and most sparkling water may have an enemy to health lurking within it. What is better is a critical examination of all possible sources of contamination and the effectual barring out of those likely to prove objectionable. This search should not only cover the immediate vicinity of the pond, but should extend for some distance up each stream emptying into it.

**** WAGES IN FRANCE AND GERMANY.

An article furnishing some valuable information about the wages paid in the different trades in Paris recently appeared in the Revue des Deux Mondes. In that gay capital, strikes are the luxury of well paid workmen, as this means of improving their condition is distrusted by those who live from hand to mouth. Apprentices in the jewelry and silversmith trade, as soon as they begin to work on their own account, receive 4s. a day; experienced workmen from 12s. to 24s. per day. Type setters get from 6s. to 12s. per day, and pressmen generally something short of this. Wood engravers vary from 6s. to 12s., but those who rank as artists earn from 12s. to 24s. In the building trade there is, practically, an average price paid by all contractors.

The city is the great employer of skilled labor of this kind, and pays stonecutters 10s. for 12 hours' work in summer, and 8s. for 8 hours' work in winter. Masons receive 6s. in summer and 5s. in winter. Carpenters get 7s. in summer and 5s. in winter; and tinsmiths, marble masons, painters, and glaziers about the same, with higher rates for those engaged in artistic branches, such as fresco and other decorations. Wages have advanced from 25 to 60 per cent., owing to the good example set by the city. Wood carvers get from 10s. to 12s. per day, upholsterers the same, and There is a remedy in removing and refilling the safety German and Italian workmen on interior decoration from 2s. 6d. to 4s. Machinists earn from 4s. up, according to em-

The number of regular workmen in Paris is estimated at 200,000, those living by occasional jobs number 75,000, and the beggars and vagabonds 15,000. It is estimated that 74 per cent. of the working population earn 4s. per day, 22 per cent. earn from 3s. to 4s., while 4 per cent earn less than 3s. So prevalent are strikes in Paris that there who receive the least remuneration. In the same trades women receive from 20 to 40 per cent. less than men, and in flower making, embroidering, dress-making, and the At this time of the year many of our farmers turn their like, there is a dull season to tide over, for which they must

> Many industries pay women only 2s. a day, due largely to competition in all kinds of sewing in prisons, convents,

In Germany the average weekly wages, the working day aiming to suit his own convenience, taste, and ideas of ar-artificers, according to the class of work upon which they en

And the state of t		
Claimond S Improved Gas Durner.— Ingure	chitecture.	are employed, from 12 to 30 marks; beltmakers, workmen
Redier's Revolving Globe.—3 engravings	But it would be well to pay more attention to the pond or	in foundries, 12 to 18 marks; locksmiths, 15 marks; smiths,
III. TECHNOLOGYNew Departures in Photo EnlargingDescrip- tion of method and apparatus used	lake from which the ice is to be taken than is generally	15 to 24 marks; workmen in machine factories, from 17 to
	done. The fact that water will not, by freezing, free itself	31 marks: watchmakers and soapmakers, 18 marks; tanners,
IV. ELECTRICITY.—The Electric Tramcar of the French Electri- cal Storage Company2 engravings The 'ilammer' Telephone of M. De Lochi-LabyeA new and	from impurities which endanger health is being widely	15 to 18 marks, linen and calico weavers from 7 to 18 marks:
The 'Hammer' Telephone of M. De Locht-LabyeA new and original arrangement for transmitting speech2 engravings 6509	recognized, and a close examination of the pond itself and	cloth weavers from 10 to 20 marks; carpetmakers, 15 marks,
original arrangement for transmitting speech.—2 engravings	of the land that drains, into it will certainly result in much	joiners and kindred trades, 15 marks; butchers, 12 to 20
VGEOLOGYOn the Inducated Shales between Bergen Hill and	benefit and may prevent disease. If the ice is to be taken	marks; brewers, 21 to 31 marks; tailors, 6 to 15 marks; fe-
the Palisades, N. J By NELSON R. DARTON	from still water, the decaying vegetable matter at the bottom	male dressmakers, 7 to 12 marks; shoemakers, 12 marks,
VINATURAL HISTORYThe Dutch Flying Zoological Station. -The object and work of the stationDescription of the building.	should be removed, especially from under the part to be cut;	The wages in South Germany are about the same as those in
-The object and work of the stationDescription of the building. -1 engraving	and if the water has a current it should be removed for a	Berlin, but the cost of living is much less.
-1 engraving	considerable distance above, so that the gases will not be	·····
proper stations for physiological study, and the manner of carrying out that work at this station — With three engravings, giving gene- ral view of the station and showing the photographic car in use	carried down to the place of cutting. The gases resulting	THE Memphis cotton seed mills, which, owing to a lack
here	from decomposition partly escape, but much remains and is	of the seed, are operated only four or five months annually,
VII. MEDICINE AND HYGIENEThe Cold Weather CureCom- paring the climate of the West with that of New England, and	liable to rise at any time; besides, the chemical action is not	
showing why the climate of Minnesota is unfavorable to consump- tion	wholly stopped by the cold, but continues to a certain ex-	
	tent all winter. The ascending bubbles are caught and im-	
VIII. MISCELLANEOUS.—The Eye as an Aid in Photometry.—Light rays always straight.—Construction of the eye.—Refraction.—Ac-		
tion of lenses	set free in the pitcher of water during the following summer.	oil and to pay producers such prices as will keep the mills
ings, showing parts of the manuscript, the wady in which it was	prisoned in the ice, their foulness remaining with them until set free in the pitcher of water during the following summer. Well authenticated cases of sickness have been caused by	supplied
toune, specimens of ancient writing, and an ancient dolman 6515	won authenticated cases of stekness have been caused by	and huger