ř	Scientific Z	American.	267
The Water of Ohio.	cost of our excellent system of common	each class; the number of each class to	in instances where other materials would b
MESSRS. EDITORS-Will you do me the per-	schools !"	each State; the total number of the class-	liable to fracture. Thus the milky juice
sonal kindness to state what form of filter	Statistics of Patents Issued in 1853.	es to each State, &c. Prepared for the	a tree (Siphonia and Ficus Elasticus)
or other agent, mechanical or chemical, is,	Tabular statements of Patents issued during	SCIENTIFIC AMERICAN by T. G. S., of Jersey	made by the art of man into a walking can
n your estimation, best adapted either to	the year 1853-with the total number of	City, N. J.:	a picture frame, a top coat, a slipper, or
nake the well water of this section of Ohio			comb. Septimus Piesse.
which is intensely impregnated with lime,)			London.
r the rain water (which is unavoidably im-	Steam allor Mana		Singular Statistics of Coffins.
regnated with the smoke and sooty residu-	ultra de la companya	The contract of the second sec	MESSES EDITORS - I have worked journe
m of bituminous coal, which is extensively		The second secon	work at coffin making at various times durin
ournt here) fit for drinking purposes. If	and a representation	tals on a constant of the cons	the past four years for James B Richard
ny family drink the lime water, their ali-		Prove state transfer and the second state of t	we make them at a certain rate per foo
nentary canal is affected throughout, and	ines brov		measuring the length of the bottom. It has
igestion consequently greatly impaired	CLASSES.		always struck me as being something ver
he running water, whether we drink of it	in the state of th	Ere do	singular that a great many coffins are re
r lave in it, is nearly certain to affect the			quired of certain sizes, while but few are r
pleen, and produce chills and fever. What			quired of other sizes. On my mentionin
hall we do? Can we filter the tinted rain			this to my employer he let me have his sal
ater and make it palatable, by charcoal,			book, from which I find the sizes to run of
uartz, or other process, or will it be more		· 문제품() 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이	an average per month as follows :
asily done by decomposing the lime in the	iente and		Ft. In. Coffins. Ft. In. Coffin
ens, or shall we be driven to the ultimatum	$\boxed{\text{Maine.}} 4 1 2 0 0 0 2 1 2 1$	0 0 0 1 0 1 0 4 1 0 1 0 21	-20 (still born) 20 4 8
usuitation? Your world-wide repute for	New Hamp. 3 2 0 0 1 0 0 0 1 0	0 1 0 2 0 1 3 0 0 0 0 0 14	2 20 4 10
muscience is sufficient guarantee that you	Vermont. $4 \ 1 \ 1 \ 0 \ 2 \ 0 \ 0 \ 2 \ 2$		2 4 20 5
au unity answer my queries, and your equal-	Mass., 412 27 6 9 4 6 6 1 4	5 0 1 14 2 6 6 12 5 2 1 2 135	2 6 19 5 2
well-known disposition to dispense your	R.I., 1141004010	0 0 0 1 0 0 0 1 0 0 0 0 14	2 8 20 5 4
easured intelligence, will constrain you to	Connecticut. 1 8 5 4 0 0 0 1 1 4	0 0 0 5 0 0 4 2 2 2 2 0 41	2 10 20 5 6
epiy, which i shall expect to read in your	New York, 28 31 9 12 16 13 16 6 8 9	10 6 6 14 6 11 10 21 2 4 4 8 250	3 18 5 8
Newark Machine Shop, Newark Obio	NewJersey, 3 5 1 3 2 0 1 0 1 1	0 0 0 1 0 0 0 1 0 0 0 19	<b>3 6</b> 9 5 10 1
Newark, Machine Shop, Newark, Onto.	Penn., 15 16 3 5 9 15 3 2 6 1	301624890133115	3 8 8 6 1
[The passing of the well water through	Delaware, 0 0 0 0 0 0 0 0 0	- 0 0 0 0 0 0 0 0 0 0 0 -	3 10 7 6 2
narcoal and sand in a common filter will	Maryland, 4 1 1 1 0 1 0 0 0	1 0 0 2 0 0 0 0 1 0 0 2 14	4 3 6 4
ot remove the lime and soften the water.	Virginia, 10 2 1 0 2 0 0 1 1 0	1 0 1 2 0 0 1 0 0 0 0 22	4 6 1 6 6
tis, nowever, a very good plan for purify-	N. Carolina, 2 0 0 0 0 0 0 0 0 1	1 0 0 0 0 0 0 0 0 0 0 4	The last three are almost always require
ig the rain water. The rain water should	S. Carolina, 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 1 0 0 0 2	for the months of December and January
e conducted to fall upon a cotton cloth-	Georgia, 102000000	0 0 0 0 0 0 0 1 0 0 0 5	this table of mortality seems to me to ru
ich as Canton hannel-which can be taken	Alabama, 1000000000	0 0 0 0 0 0 0 0 0 0 0 1	very singularly on sizes, and I suppose it
his is done the charges will have to be re-	Mississippi, 1 0 0 0 0 0 0 0 0	0 0 0 0 1 0 0 0 0 0 0 2	be worthy of publication in order to provol
and oftener	Louisiana, 0 1 0 0 0 0 0 0 1 0	1 0 0 0 0 0 0 1 0 1 0 0 5	inquiry on the subject-some good may r
Hand lime water can be softened with quick	Arkansas, 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	sult from investigating the thing.
ma. The common hard lime water in some	Kentucky, 1 1 3 0 0 0 0 0 1 1	0 0 0 1 0 0 0 0 0 0 0 8	N. BI may mention that along Roc
zells and streams contains carbonate and	Tennessee, 1 1 0 0 0 1 0 0 0 0	0 0 0 0 0 0 1 0 0 0 0 4	River, in Ogle Co., III., there are many be
uphate of lime. These make the water	Ohio, 14 2 1 4 3 4 1 0 1 0	$1 \ 4 \ 2 \ 5 \ 0 \ 2 \ 11 \ 3 \ 1 \ 1 \ 0 \ 3 \ 63$	of good sand proper for making the fine
ard, and can be precipitated by quick or	Indiana, 6110000012	0 0 2 2 0 0 1 0 0 0 0 16	kind of glass. If any of the New York ma
esh slacked lime, which is a hydrated ox	Illinois, 9001010100	1 0 2 4 0 1 0 1 0 1 0 0 22	ufacturers wish to inspect the sand, I will be a single state of the sand of the sand of the sand of the sand state of t
d. Half an ounce of quicklime stirred in	Michigan, 3 1 0 0 1 1 0 0 0 0	0 0 0 2 0 0 0 1 0 0 0 9	send them a sample if they will address
pan containing nine quarts of water, then	Wisconsin, 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 1 0 0 1	note to JARVIS KOYAL,
rown into a twenty gallon cask of clear	Iowa, 100010000	0 0 0 0 0 0 0 0 0 0 0 0 2	Oregon City, III., April 2, 1855.
ard lime water, will soften it, by taking up	$M_{1} = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = $		. To Sportsmen.
le excess of carbonate and falling to the bot-	Ualifornia, 0 1 0 0 0 0 0 0 0 0		Wash your gun barrels in spirits of tu
m in the form of chalk and gypsum. This	Texas, 0 0 0 0 0 0 0 0 1 0		pentine by dipping a rag or sponge fasten
ay of treating the hard lime water of Ohio	Dis. of Uol., 1 1 0 0 0 2 1 0 1 1 Ferrir		on your gun rod into the liquid, and swa
ill render it more fit for washing, and for	roreign, 0 4 3 9 1 1 3 1 0 0	0 0 0 0 0 0 0 0 0 2 0 1 0 25	bing them out three or four times, who
eding steam boilers, but we are not sure	Totals, 118 93 64 46 48 44 37 19 30 2	$7 \hspace{.1in} 25 \hspace{.1in} 12 \hspace{.1in} 15 \hspace{.1in} 65 \hspace{.1in} 12 \hspace{.1in} 26 \hspace{.1in} 46 \hspace{.1in} 56 \hspace{.1in} 16 \hspace{.1in} 15 \hspace{.1in} 12 \hspace{.1in} 19 \hspace{.1in} 845$	they will be cleared from all impurities, an
hether or not it will be rendered any more	Extensions		can be used almost instantly as the turpe
alatable or healthy. A little sal soda will	Additional Improvements -		tine will evaporate and leave the barre
so precipitate the carbonate of lime and	Re-issues.	24	dry; even if they are a little moist it w
ften the water.	Designs.		not prevent their going off like water. A
There are many substances which we know			ter being washed thus, there is no danger
at could be employed to precipitate all the	Grand Total,	959	rust as when water is used. I am an old e
ne in well water, but then it would be too	REMARKS-New York received the highest	each were issued. In classes 4, 5, 6, 7, 9, 10,	perienced gunner, and have practiced th
pensive to use them, and besides, they	number of patents, and more than one quar-	11, 16, 17, twenty-five, and under fifty were	for years, and found it useful. Spirits
nnot be used with safety either. The only	ter of the whole, 250; Massachusetts, the	issued.	turpentine can be procured at all count
tional economical system which we can	next highest, 135; Pennsylvania, 115—these	This table will well repay a further inves-	stores, and a small quantity sufficient.
ink of for purifying the well water of	three States receiving more than one half of	tigation, both by the curious, and those seek-	Fire Island. F. D.
ewark, Ohio, is by filtration, as follows :	the whole number issued. Alabama, Wis-	ing information on the resources, genius, &c.,	Chloroforming Weevils.
ake a long channel or way of cobble stones	consin, California, Texas, received each, 1.	of the country.	One of the editors of the Washington
and and clay, and conduct the water	Delaware and Arkansas received none. For-	[All our inventors must feel deeply	Union was present at the Patent Office a fe
rough it in its passage to a filtering cis-	eign Patents issued, 25.	obliged to our correspondent for the labor	days since, while experiments were made
ern, where it should be made to percolate	New York was the only State that receiv-	he has bestowed on the above table. The in-	destroy weevil in wheat by the use of chlor
rough fine charcoal and clean sand, and	ed patents in each class, and in classes 1 and	formation is very useful, and the work is ably	form. In two or three minutes, after a f
ass from the bottom through an opening	2, is ahead of all the others. Massachusetts	accomplished. We hope he will perform	drops of chloroform had been administere
to an adjoining open chamber for use	received most in class 3; Pennsylvania, in	the same good office for the Report of 1854.	the insects naturally enough began to exhi
The form of the filtering chamber is of no	class 5.	We do not know any person who can do it	it unmistakable symptoms of uneasing

the water receives the greatest amount of In consequence of the numerous application for some useful purpose. This is not to opinion of the experimenter that these deagitation among the stones sand and clay, tions of iron to the arts in our period, the be wondered at when its extraordinary qual-structive insects might be effectually exterso much the better. The channel should be present is frequently termed the "Iron ities are considered. It is now, we perceive, minated through the agency of chloroform, and large quantities of fine wheat saved evset upon an incline, and the cobble stones Age." It is sometimes, too, very properly made into combs, superseding expensive torclay, and sand renewed from time to time. called the "Age of Steam," and at others toise-shell and the brittle horn. When india ery year. the "Age of Electricity." With equal pro- rubber is mixed and kneaded with a portion ...... priety it may be termed the "India rubber of sulphur, and passes through heated roll-Foul Linen, Buttons, and Coat Tails. Mail Boxes. An exchange paper indulges in the follow-The mails on the Cunard steamers are now Age" The application of this substance to ers to thoroughly incorporate the sulphur, ing moral and instructive calculations: the arts and manufactures are so numerous it is then called "vulcanized." Now if the carried in pine-wood boxes instead of leaththat we cannot think of giving a list of them vulcanized rubber be exposed for a few er bags, as formerly. Each box contains "It has been calculated that the cost of here; nevertheless, we will mention a few hours in a vessel to the action of high-pres. about 2500 letters, and weighs about 100 lbs. washing linen that might just as well be worn two days longer, amounts to enough facts relative to this material. When we sure steam, say of 300° centigrade heat, it By means of an inner spring an engraved in this country to more than defray the exwere at school india rubber was looked up-lacquires new properties. From being soft direction-Liverpool, Boston, New Yorkon only as "a curious specimen of a vege- it becomes hard, though very difficult to shows itself when necessary. The boxes penses of the American Board of Foreign Missions! The expense of buttons worn on are all numbered, and therefore their destitable gum, which had the singular quality break. In this state its texture very much the back of our coats, where they are of no of removing pencil marks from paper." Now resembles tortoise shell, and can be beauti- nation can easily be traced. The lid is fastearthly use, is equal to the support of all this is some thirty summers past; and dur- fully polished. Comb-makers cut and work ened down by a screw, counter-sunk in a our orphan asylums! The value of tails to ing that short period india rubber has been it like shell. It can be carved, and designs brass plate, over which is the Post Office dress coats (of no value in reality for warmth employed for shoes, coats, hats, carriage of any form can be made; and, from its seal, and this can only, therefore, be wilful- $\Lambda$ or convenience) is actually greater than the wheels, pipes, joints, &c., in endless variety. strength, it is well suited for delicate work by fractured. 1

In classes 1, 2, 3, 14, 18, more than fifty better.-[Ed. India Rubber Combs. Every day we find out some new applica-

consequence, it may be square or round; but

the longer the conducting channel is, so that

## which proved to be the certain precursors of a quiet, respectable death. It was the