## FUNNY FRAGMENTS.

Whags that have not Coms Dows.-A clergyman recently aroused his alsepy audience by aasorting, in the most positive manner, that, notwithstanding the hard times, the wages of sin have not been cut down one iota.
The village is flooded with apurioue ailver coins. Wo anked a witty Irishman if he had any idea where they came from. "Yee, sir, they come from some fellow's base-mint, and the buyer passes them to the noller again,
"Captais, please give me a light," said a volunteer the other day. "Certainly; but if we were regulara such a liberty would not be allowable." "In that so!" said the private; but if we were regulars, you wouldn't be captain, perhapa."
Husband: "If I were to lose you I wonld never be such a fool as to marry again." Wife: "If I were to lone you I would marry again direetly." Husband: "Then my doath would be regretted by at least one person." Wife: "By whom?" Huaband: "My nuccenaor!"
Example and Prgerits.-(Mrs. Drinkwater's lady friends had oome up to the vicarage to take a cup of tea and to talk over the aubject of siocial reform. Mis. D. was apeaking fanently about the drinking habita of the villagers, when anntie directed Mru. D.' a attention to the front garden, where Manter D., aged nine, was turning summersaulta in the snow). Mra. D., runh. ing excitedly to the window: "Nurse girl! what in that dear boy doing out there in the nnow without his ahoes and stockinge"' Nurse: "Please, ma'am, he says he wants to cateh a proper cold and cough; then ho'll bo like auntie, and have a jolly 'ot glans of whinky before he goes to bod, ma'am."-Plun.
Trk Hon. Samuel Houston, when a Senator from Toxas, onoe in a speech in the Senate, related an aneedote of a Washington juitice who, having heard the plaintiffa statement of a case referred to him for adjustment, proceeded at once to give judgment. "Stop, squire," said the defendant, "you have not heard my nide yet. Hear me before you decide!" "That is not necesary." said the austere judgo; "in fact I find it positively improper to do so. You see I have been in this fix before," he went on, "and I don't like it. When I hear one nide I am certain how I ought to decide; but when I hear both sides I am purzled," and ho decided acoordingly for the plaintiff,

Artificial Marmie Prodeckd hy Steam Heat and Peessure. - A proces has been invented by Mina Hosmer, the seulptress, for making artificial marble which differs from previous processes in the fact that limentone in the nolid state is employed as the base instead of a mixture of planter and cement. The limentone in worked by any suitable mesns to the desired form, and ia then placed in a boiler furninhed with a safoty-valve and manometer, so that the prosure therein may be noted and controlled as may be required. The boiler is flled with pure water at the ordinary temperature, care being taken that there is no mineral deposit introdueed with the water, and that the water
completely covers the objecta placed within the eompletely covers the objecta placed witain the
boiler. The bniler is then hermetically sealed and tire applisd, and the water allowed to boil until the manometer indicater 75 pounds of atmospherie pressure if the objects are amall, and 90 or 100 pounds of pressure if the objects are large. When the heat resches the abovementioned point the water is allowed to cool until the presarure indicatel by the manomater returas to zera. The water is then taken out of the boiler aither by means of a pump or a syphon, and the objecta are removed from
the boiler preparatory to being placed in the the boiler preparatory to being plaoed in the
alum or colored hath, various recipee being alum or calored ham, varion
given for differeat colors.

## FRESH AND STALE BRRAD,

The celebrated French chemint, M. Bousaingault, has recently inventigated the nature of the chango whioh broad undergoen when it becomea stale. Up to the present time this has not been well underatood.
A ciroular loaf, 12 inchen in diameter and aix inchen thick, was taken from an oven heated to $240^{\circ}$ Reaumer, and a thermometer immediately forced three inchen into it. The thermometer indicated $78^{+}$R. (207.5 F.) The loal war then taken to a room at a temperature of $15^{\circ} \mathrm{R}$. ( $66^{\circ}$ F.), and was fonnd to weigh soven and a half pounds, In 12 hourn the temperature of the loaf sank to $19^{*}$ R. ( $\left.73^{+} \mathrm{F}.\right)$, in 24 hours to $15^{+}$ ( $66^{\circ} \mathrm{F}$. ), and in 36 hours to $14^{\circ}\left(63,5^{\circ} \mathrm{F}.\right)$. In the firat 48 hours it lost only two ounces in weight. After aix days the loal was again put in the oven, and when the thermometer indicated that ita temperature hal risen to $85^{\circ} \mathrm{R}$. ( $156^{\circ}$ F.), it was out, and was found to be as froah, and to possens the same qualities, as if it had been taken out of the oven for the firat time; but it had now lost 12 ounces in weight. Kx periments were also made on alices of the loaf with similar ronulta, proving that new bread differs from old, not by containing.a larger proportion of water, but by a peculiar molecular condition. This commences and continues to change during cooling, but by again heating the bread to a certain temperature it is restored to ita original state. It in this mechanioal ntate which makes new bread less digestible than old. The former is no noft, olaatic, and glutinous in all its parts that ordinary mastication fails to reduce if to a sufficiently divided oondition. It forms itself into hard balls, which are almost unaffected by the gastric juice. These balls often remain in the stomach, and, like foreign bodies, irritate and discommode it, inducing all sorts of unpleasant feelings.

Somerimsa Cumovs abott Explosives, A remarkable aceident happened not long ago to M. Zede at the Normal sechool in Paris He was atudying the propertics of a componition formed of equal parta of gan-cotton and nitrate of ammonia. This was inflamed in a brosian tube of six millimeters internal diameter, and expanded without detonation. Thirty experimenta had been made, and M. Zode then reduced the sixe of the tube to five millimeters. When he tried the experiment anew under these conditions a frightful explosion eceurred. The tube was shattered into 00 pieces, some of which pasied through the roof of the labonstory and penetrated abont four centimeters into a brick wall. The operator had one of his legs broken. This ancident is engaging the attention of the French Commission des Poudres et Salpetres. M. Sainte-Claire Deville, in the Academy, pointed out that the faet belonged to a cateqory including already aeveral othern, and he recalled an observation ly Prof. Abel. About 0.2 graias of chloride of nitregen is placed in a wateh-glase, and exploded with a piece of phosphorus the noine is tremandous, but the explosion has little or no ahattering efleot Now repeat the same experiment, after having breathed on the chloride so as to dejouit a thin envelope of moistare, Which cannot be more than a thonsandth of a millimeter thick. In this oase the explosion is lese noisy, but the effeete are quite different. Not auly is the glase puiverixal, bat the table supporting it is perfornted-Boitos Journal af Chemidery.

To Maxe Inos Take a Benait Poush hege Srakt-Pulverise and diseolve the following articles is ope quart of hot wateri Blae vitrial, one ounce; borax, one cancer prusiate of potash, one ounce; charcoal, one oubee; salt, one halr-pint; then cld one gallop linneed oil. Mix wall, bring yoar iron or ateel to the proper hest and cool in the alation. It in asid the mansfacturens of the Judaen governor paid olog for this recipes, the object leing to cestharden irus io that if woold thke a bright polish like steel.

TRTBUTR TO AMORTCAN MXPLORFRS.
The following tribute to Amerioan explorors is from the pee of Prof. T, C. Archer, Direetor of the Museum of Science and Art, Edinburg. and Centennial Commisioner from Great Britain:
There is nothing in the hiatory of the human race more remarkable than the rapidity with which the wilde of Western America have been oxplored and added to the domains of civilized man. Midle-aged men oan remiember the first great rush to the Californian gold diggings, and the export from this country of irot houses for the shelter of the minere where now a pplendid and populous city existe, and is the resert of travelern from all parta of the work) whilat in a marvelounly small apace of time the great State of whieh that eity in the capital, has be. some one of the moat fertile and wealithy in the great Republio, and is now connected with the eastern shores of the continent by 2,000 milen of railway. The apirit of enterpines, no doubt, has had much to do with this wonderful progreany bot the faraighted and liberal apirit of the United States Government has made the task comparativaly enay. The oareful but energotic aurvays, both goographical and goologioal, which have been working for yoars paen, have made the beat routes known, anid, in fact have opened up the hoart of the country, and made the most distant and the moet dasert parta acoesaible. Fortunately for the Govern: ment and the country, men of the greateat fitness for the takk were nelected, and the great extent of the work they have done proves their indastry, as well as the nature of it shows their great abilities, The Atlas of Colorndeand portions of adjacent territory, is one of the moat masterly works in chartograply which auy country has produced, and ita colmpeet arrangement will make it a welcome aildition to ever library, It consists of 20 double folio sheets, of which two are filled with eleverly ontlined panoramie views of the country surveyed, and fwo others give the sections of the same geologieally oolored. Twelve are dovoted to the aix diviaions into which Coloralo is divided, oss-halt of them giving the topographical and the other half the geological features of the country. There is, in addition, a map showing the triangulation of the country, another showing thenaturaldrainage, an eoonomie map indicating the agrienl. tural, panture and foreat lands, nad the locality of coal-bearing and metalliferoue strata. Of the execution of these maje it is impoesille to apeak too highly. They have been prodaesd by the talented and indefatigable ohiol of the aurveys, Prof. F. V. Hayden, sad are a part of a series of the reporta sal transsetions of the Survay Department, some of which we hope to draw attention to from time to time, so they can generally bo cousalted in publie lihraries, to which the United States Governueal extends its liberality.
Japaneak Mage Minnona-The so-eallel magie mirrors, with which the Japasees metalworkers have hitherte sueceeded in puzaling ear narasts, have been generally swpposed to own their strange property of reffesting inages that were quite invisible upen their tiriliantly pol ished surfaees, to corresponding inequalities is the denaity of the surlaen, produced by mome moans during cooling or by claniping Profeswors Ayrten and Petty, who have lately stedied their pecaliarities, offer snother eaplanation. They affirin that the effeets above notieed are prodnced by resson of very slight irragularities in eurvatare of the pelished aurfaces, theee ir. repularities being auph that the thieker parts, oorreeponding with the raised petterse oes the beck, are flatter than the remainiag eenvex gurtoce, by which difforenee there womld be lees disperson of light from the thiek than frotn
the thin portions of the surfuce. As, salese eo the thin portione of the surfuce. As, salese os ars grealy mistakes, we remember to have plane aurfaces, the above axp ansation weold ap. piane to bo lase satiafuctory thas the sider ons.

