



LAWS HAS BEEN RESTORED'' (IN UTAH.) -James Buchanan's Message to Congress.

RESPONSE.

Tell Congress, sir, that yonder sun Will Nature's laws obey, And has, accordingly, begun To shed the solar ray.

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Announce to Congress that the moon Will yield obrdience To Nature, and will, therefore, soon Her borrowed light dispense.

Say too, the twinkling orbs of night slouoti Will now in order move-Thenceforth they'll decorate with light The galaxy above. 学们、学师日本14年一位用学校的学校

Tell Congress that the Seasons now,

"THE REIGN OF THE CONSTITUTION AND single obstruction. Then we come into a battle of Cressy, in 1348. In England they tity of zinc much exceeded 50 per cent of the large coal field, and this seems to contain the were first used at the seige of Berwick, in 1405. copper, the brass produced was very brittle. elements of future civilization. Then I may It was not until 1544, however, that they were A beautiful brass composed of zinc 50.68, state that, as we have to examine the river, cast in England. They were used on board of copper 49.32, was made. It contains about 20 our expedition will be a practical one. It is ships by the Venetians in 1536, and were in per cent more zinc than the brasses of comnot like those that have been sent to the North use among the Turks about the same time. merce, and yet when carefully prepared it is Pole. We hope to have something to show An artillery company was instituted in Esg- richer in color, which renders it superior, for when we come back. Our botanist is an land for weekly military exercises in 1686. many purposes, to commercial brass, also on economic botanist, and the geologist is a prac- Insurances of ships was first practised in account of the softness of the latter. We tical mining geologist; and the naval officer, reign of Cæsar, in 45. It was a general cus- hope American pin manufacturers will take Captain Beddingfield, has had a great deal of tom in Europe in 1194. Insurance offices were this as a useful hint, because the pins which experience in African rivers, and has not been first established in London, in 1667. they now make, although much cheaper than

in the country. But I think this expedition is Banks were first established by the Lombard | an alloy of copper 82.05, tin 12.82, zinc 5.13,

deterred by the fear of suffering from African Astronomy was first studied by the Moors, the old "London pins," are far inferior in the fever, any more than myself, from volunteering and was by them introduced into Europe in quality of metal; they do not seem to have any to go on this expedition. He goes to examine 1201. The rapid progress of modern astrono- strength-they bend like a piece of lead wire. the river system, and give us correct informa- my dates from the time of Copernicus. Books The common alloys employed for making tion about the river system and its navigabili- of astronomy and geometry were destroyed as journal boxes are much dearer than a brass ty. And then we have an artist and a photo- infected with magic, in England, under the composed of zinc 50, and copper 50, and yet grapher, to give an idea of what is to be seen reign of Edward VI. in 1552. they are no harder. For heavy bearing boxes

placed in a somewhat peculiar position. I Jews in Italy. The name is derived from is common. Its hardness is 562 as compared

In strictest loyalty all a strain a To Nature's Constitution, bow With all fidelity. I notify and Let Congress know, the orbs above Have all agreed to shine-The Seasons, in their course to move, Have formed a late design. . 313550 Or else announce one fact instead, 1.10.3 Which long will be deploted,

That wisdom to our Nation's head Has not its "reign restored." tong they want allow to regist and QUERY: Where have the Constitution and laws reigned during the last few years, but in Utah? E. R. S. G. S. L. City, August 4, 1858. 120 M. Y 4 11 20 - 50 Ila discontration and the second and the

Dr. Livingstone at the Cape.

hating along way and an and the The Cape of Good Hope papers contain full reports of the farewell dinner at Cape Town to Dr. Livingstone and the officers of the Zamney-General, presided, and Captain J. M. Hill, Civil Commissioner, and resident magistrate of the Cape district, occupied the vice-chair. On the right of the chairman sat the Governor, Captain Beddingfield, Mr. Justice Cloete, Rev. and on the left were Dr. Livingstone, Justice the Rev. Mr. Livingstone.

The toast to Dr. Livingstone was proposed by his Excellency. The handle less hor

Dr. Livingstone, in acknowledging the toast, said: If you will allow me, I will explain to you how I mean to endeavor to follow up the discoveries which have been made. The central part of the continent which we now stand upon was supposed for a long time to be a great sandy plain. Certain rivers were known were not known further, and they were supposed in consequence to become lost. But watered, healthy localities on both sides of the country which were suitable for a European residence. Efforts have been made for cenunfortunately, it has been always attempted through the unhealthy parts near the coast. On the southern part of the country we had was sent out from Cape Town under Dr. Smith was prevented from penetrating the interior by this same Kalibari desert. The unhealthy coasts presented a barrier on both sides; and self succeeded in passing round that desert, ately after the Conquest, but revived by the then we came into a new and well-watered Crusaders, they having felt the effects of it country beyond. When I passed into that from the Saracens, who probably derived it country, I had not the smallest idea that there from the Parthians. Bows and arrows as was such a want of cotton as I found to be the weapons of war were in use with stone cancase when I went home to England. But non so late as 1540. It is singular that all the there I saw the cotton growing wild and almost statutes for the encouragement of archery were everywhere, and that sugar was collected all framed after the invention of gunpowder and ever the country (although the people did not firearms. Yew trees were encouraged in know that it could be produced from the sugar churchyards for the making of bows, in 1482. cane); and I found, further, that this was a Hence their generality in churchyards in Enggreat market for labor. When I lived at Ko- land. lobeng men left that tribe, and I found some of Coats of arms came into vogue in the reign them within two hundred miles of Cape Town, of Richard I. of England, and became here-

never heard of another expedition being simi- 'banco,' bench-benches being erected in the with cast iron at 1,000, and is lower than the larly situated. My companions are all put on market places for the exchange of money, etc. brass of '604 hardness, yet its cost is at least their mettle. They are aware that it is very The first public bank was at Venice, about three times greater. well known that when alone I did something; 1550. The Bank of England was established In a series of bronze alloys containing tin and if we don't do well now in this expedition, in 1693. In 1696 its notes were at twenty per and copper, it was found that an excess of tin

ter] so they are all put on their mettle; and I linus, bishop of Nola in Campania about the is the cause of brittleness. Thus an alloy of have the greatest confidence in their desire to year 400. They were first introduced into 21.21 copper, and 78-79 tin, is not brittle; but accomplish the great objects of the expedition. churches as a defence against thunder and an alloy of 34-98 copper, and 65-02 tin is very We find that in the middle of the country there lightning in 900. They were first hung up in brittle. When the copper is increased to make are a great many branches of the Zambesi. England at Croydon Abbey, Lincolnshire, in an alloy of 84-68 copper, and 15-32 tin, the Several of them I have examined myself, and 945. In the eleventh century and later it was brittleness is removed, and the alloy is very found they went out a few miles-some ten or the custom to bap'ize them in the churches be- hard; it is as compared with cast iron at 1,000, twelve miles-and then came in again to the fore they were used. The curlow bell was 916 in hardness. A composition of 9.73 copmain stream. Now, the natives pointed out a established in 1100. It was rung at eight in per, and 90.27 tin, is very soft, being only 83 number more, and they say these other streams the evening, when people were obliged to put as compared with cast iron. come out of the main branch, and enter it out their fire and candle. Bell men were ap- An excess of zinc in brass increases its hardagain, after passing some hundreds of miles. pointed in London in 1556, to ring the bells at ness, while the very opposite result would be This is a most interesting point, because if the night and cry, "Take care of your fire and expected, because zine is softer than copper. departing and returning branches are really candle, be charitable to the poor, and pray In alloys of copper and tin-common bronze-

seen-then we may go up them in the small for the dead." steam launch, and have a navigable pathway How many are aware of the origin of the would be expected, because it is the softer besi expedition. The Hon. W. Porter, Attor- into an immense extent of country beyond. word "boo!" used to frighten children. It is a metal. On the other hand, au increased quan-We will not be then obliged to pass the great corruption of Bob, the name of a fierce Goth- tity of copper-from but one-third to that of falls of Victoria, which cannot be passed in ic general, the son of Odin, the mention of the quantity of tin in the bronze, up until it any vessel. If we have a navigable pathway whose name spread a panic among his enemies. (the copper) is four times the quantity of tininto the country beyond, then there is a prodimannen gious extent of country, all well adapted for ALLOYS OF METALS. AUGUARTI R. Moffat, Rev. Dean Douglass, Mr. T. Baine; the cultivation of those products which we now get through slave labor. And what I Much has yet to be learned regarding the Bell, Mr. R. Thornton, Hon. H. Rivers, and hope to effect is this; I don't hope to send alloys of metals, because a very small differ- much, undoubtedly, depends on the mode of down cargoes of cotton and sugar; perhaps ence in the proportions of the metals employed mixing them; such as the length of time they. that result will not be in my lifetime. But I produces a great difference in the quality of are kept at a smelting heat, and the length of hope we shall make a beginning, and get in the alloy sought to be obtained .. A very in- time in cooling them. Copper is rendered the thin end of a wedge, and that we shall teresting paper on this subject (as published hard by slow cooling, and soft by rapid coolopen up a pathway into the interior of the in the London Engineer) has recently been ing, while iron possesses the very opposite country, and by getting right into the centre communicated to the Manchester (England) qualities. have a speedy passage by an open pathway, Philosophical Society, by F. Grace Calvert, Alloys containing copper generally contract working from the centre out towards the sides. F.C.S., and R. Johnson. The object of the and become of greater specific gravity. An When going into the country we don't mean to authors of this paper was to present some- amalgam of mercury and tin expands, as do leave our Christianity behind us. [Cheers.] thing reliable and useful regarding the hard- nearly all amalgams. The following binary to be flowing in towards the centre, but they I think we made somewhat of a mistake-in- ness of alloys. The process at present adopt- alloys also expand, namely: bismuth and zinc; deed, a very great mistake-in India; but ed for determining the comparative hardness bismuth and antimony; lead and tin, and lead where we are going, we will have no need to of bodies consists in rubbing one against an- and antimony. Therefore these alloys should instead of that, the grand view burst gradually be ashamed of our Christianity. We go as other, and the one which scratches is held to take the sharp outline of molds, and be eminupon my mind of a very fine, well-watered Christians; we go to speak to the people about be the hardest. Thus, for example, when ently adapted for casting small ornaments -country; and not only that, but of certain well- our Christianity, and to try and recommend diamond is rubbed against glass, it is found Scientific American. our religion to those with whom we come in that the former scatches the latter, hence the contact. I have received the greatest kind- diamond is justly held to be the hardest. ness from all classes of people in the interior. Every person is familiar with regard to the turies to get into the interior of Africa, but, I have found that only when we approach the comparative hardness of these two bodies, but confines of civilization, the people become very few are acquainted with the comparative worse. Such is the fact-the nearer we come hardness of other bodies, especially metals to civilization, we find the people very much and their alloys, although a scale of hardness the Kalihari desert, and the expedition which worse than those who never had any contact has long been adopted among mineralogists. with the white man. Messrs. Calvert and Johnson made a series 901 301 701 th (101 303 100 of experiments with pretty large masses of metal to test their comparative hardness; and Curious Facts from History. nercy that were not initial in its patter. Bro the following is a most useful table which has this desert presented an obstacle on the south; The Saxons first introduced archery in the been prepared, embracing the results of their but when Messrs. Oswald, Murray and my- time of Voltigeur. It was dropped immedi- investigations:-

people will say, 'Why, those fellows have pre- cent discount. was the cause of softness, while an excess of The invention of bells is attributed to Pau- copper, although it is such a malleable metal,

an excess of tin renders the alloy soft, as renders the alloy brittle, a result which would not be expected, judging from the nature of the metals in their simple conditions.

Regarding the quality of alloys of all kinds,

" aness construct itiens a

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unhealthy regions beyond. We proceed first established by Charles VII. of France, 1445. known; hence its superiority for the pillars coat also." we caught in a proper off one. Young m of all up the river Zambesi, and have the full Previous to that time the king had depended and walls of buildings, and the journal boxes to service anonnonne to the authority of the Portuguese for so doing. This upon his nobles for contingencies in time of of heavy stationary shafting-the latter, how-Do all in your power to teach your river is very large; it is difficult to convey to war. A standing army was first established ever, should always be lined with a soft anti- children self-government. If a child is pasthe people of such a dry country as this an in England in 1638, by Charles I.; but it was friction alloy. sionate, teach him by gentle means to curb his idea of its size, but the narrowest part that I declared illegal as well as the organization of It was found that some brasses were harder temper. If he is sulky, charm him out of it saw seemed almost to be equal to the Thames the royal guards in 1679. The first permanent than any of the metals composing them, and by frank good humor. If indolent, accustom at London bridge. It was not known to be a military band instituted in England was the strange to relate, this hardness is due to the him to exertion, and train him so as to perform large river, on account of its being separated yeomen of the guards, established in 1486. softer metal-the zinc. Thus an alloy of zinc even onerous duties with alacrity. If pride into five or six branches at its mouth, be- Guns were invented by Swartz, a German, 50, copper 49, was in hardness as compared comes in to make obedience reluctant, subdue fore ilt reaches the sea. But, when we get about 1378, and were brought into use by the with cast iron 604; while an alloy of copper him by coursel or discipline. In short, give laland, we have a noble stream, and we have Venetians in 1382. Cannons were invented at 66, zinc 33, was only '472 in hardness. The your children the habit of overcoming their at least 250 miles of the stream without a an anterior date. They were first used at the fact was also eliminated that when the quan- besetting sins. besetting sins.

AMES OF METALS.	HARDNESS.
Cast Iron	1.000
Steel	
Wrought Iron	
Fidunum Area erea erea erea	****** ·3/3
rure copper	
Aluminum Silver	271
Silver	208
Zinc	···· ·· ·183
Gold	167
Cadmium	108
Bismuth	52
Tin	27
Lead	10

seeking to obtain work. Now, here we have ditary in families about the year 1192. They This table exhibits the remarkable fact that the produce and here we have the labor, and I took their rise from the knights painting their cast iron is harder than all the other metals; joined he, "if any man were to claim the coat hope we may secure a healthy standing point, banners with different figures to distinguish it was found to be harder than any alloy. Its upon my back, and threaten my refusal with a law suit, he should certainly have it, lest, from which Europeans may push their com- them in the crusades. great resistance to a erushing force-on acmercial and their missionary enterprise to the The first standing army of modern times was count of its cohesion and hardness-is well in defending my coat, I should lose my waist-

makes a force more more all the

THINGS THAT SHOULD NEVER BE DONE .-Never abuse one who was once your bosom friend, however bitter now.

Never hire servants who go in pairs-as sisters, cousins, or any thing else.

Never insult poverty.

Never stand at a corner of a street.

Never speak contemptuously of womankind litan note son his pas digin

Never speak of your father as the "old man 220 mos 101 galapiset dass sad any sens

Never blow your nose between your thumb and fingers. and togics saturate and in the paste

Never eat a bearty supper.

Never stop to talk in a church aisle after service is over.

Never smile at the expense of your religion or your Bible. NUT IG REPARTORNE 25

Never take a second nap.

Never reply to the epithet of a drunkard, a fool or a fellow.

Never taste an atom when you are not hungry; it is suicidal.

A celebrated barrister, retired from practice, was one day asked his sincere opinion of the law. "Why, the fact is," re-