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What was to be; What is, and What is not.

It is the fortune, or misfortune, of every age, we cannot tell which, to be the witness of great is the exercise of the judgment coupled with combination of levers in the construction of a combination of rigid levers. The operation of events that never transpire. On the twenty- sound knowledge of the subject. In giving bridge, as if it were altogether a question of the crank is not to be viewed like the impact third day of April, 1843, this world was cer- advice, or expressing an opinion, we always statistics. They say that a crank four feet of balls upon a billiard table. It is very erretain to come to an end, according to the views are sincere, and we have ever found that truth long has a leverage of less than two feet, and neous to suppose that oblique action, indeof some visionaries, but we congratulate our and sincerity are never far separated. No one the way they prove it is this, "There are pendent of friction, destroys power in a mafellow-men that our globe stood the test of that should despise a thing because it is new or op- two points in the crank circle where there is chine. If this were true, we might, if there earthquake of excitement, and she is still posed to preconceived notions, and no one walking round on her path of beauty, fresh as should be two ready to jump at conclusions. the day when she commenced her celestial however plausible they may appear, without a course, when all "the morning stars sang to- | full and careful examination of the subject in gether for joy." It seems, almost always, to allits bearings. ^follow as a counterbalance to the real, that we should frequently be beguiled by the fallacious. In the field of invention and discovery, we behold the same ups and downs that so often wide-spread and unlearned opinions respecting astonish, delude, and gratify, in other depart- the properties of the crank. There is searcely ments of things that belong to life. The great a week passes over our heads without some er exerted by the positive is nullified by the ne- of power in the crank, we must take the pow-Boyle was always on the point of discovering contrivance being presented to us, either in the perpetual motion, and since his day the world shape of a rotary engine, or some device "to crankites use. If we do not take the modus of 4 feet is the radius of a circle of 25 1.7 feet has been often astonished with such kind of save," as the inventors say, "the power lost operandi of the steam engine into considera. and during the time the piston moves 16 feet machines, but they are as if they were not. A by the crank." We have often been deeply tion, we have no business to go round the cir- the crank moves through a space of 251-7 few years ago, a plan was got up to convey grieved at the time and money spent by some cle described by the crank at all. It is posi-feet, more than one-third greater velocity .-packages to any distance through air-tight on such contrivances, and have always endea- | tively necessary that every proposition should Now, instead of having an excess of velocity. tubes, exhausted by air pumps. This discove- vored to turn inventive minds in the right di- be right, or the working of it will not be cor- the anti-crankites should have transfixed it at ry was to revolutionize the carrying express rection. There are many ingenious men who rect. It is well known how bitter the dispute the dead power points. The formula for find-trate-but it is no more. This is a plan, cannot be turned from their settled opinions, was between the British and German philoso. ing the average leverage of the crank, is to which no one can jeer at, for if it would operate, its advantages would be immense.

In the line of navigating the zrial ocean, ventors, have arisen, some to delude themselves, and some to delude others. Were it

During the past two years, in London especially, and from there to the ends of the world, nothing was heard of from time to time, but the great "Electric Light." A Frenchman discovered one kind, an Englishman another, and a Scotchman another, all-all, were to make short work of gas companies with their ty of 40,000,000; that is, one bushel of coals bagatelle of retorts, pipes, fume and expenses. At one time the price of stocks fell consideraby, and there was no little panic in the gas market. It has turned out after all, that the electric was the lighter gas, and the old kind the jeersofits younger opponents have been converted into an expiring moan for its lost consequence. Thus it is that we are ever on the rounds of the ladder-now up and now down, to the top of the building. The most shrewd vention of an equally rigid and inflexible con- wheel, to pump a mine, would any person of way we have examined it, all harmonizes acand discerning are often deceived, with the plausibility of some inventions, and neither the piston, rod, the latter of which has a recgenius nor acquirements, keep people from tilineal and reciprocating motion." committing blunders. Newton made a blunder in his theory of seven distinct colors-; cription, the crank would not move at all, for Franklin was in error in explaining the theory | the very reason that those mechanical contriof electricity-Davy made many mistakes, and vances which connect the crank to the rods, so did Watt. We need not think that we have are not stated. These are joints which enable arrived at perfection in this age, or that we the connecting levers to work beautifully on have not our failings as well as those who have; centre pins. In the language of M. Arago, lived before us. We look forward in one sense there is a certain articulated parallelogram, two placed eccentrically opposite one another power, if there was a loss by the crank? No. "to see the same scenes which our fathers and at each ascent and descent of the piston, have seen, and to tell the same tales which our its angles open and close with sweetness: I fathers have told." The wisdom which we had almost said, with the grace which charms suspended, by a cord, a weight of two pounds, the power communicated to it, by the theory of can gather from the past, is that of experience you see in the gestures of a consummate actor. and on the peripheries of the eccentric pulleys, the pulleyites. It must be a curious place. mit, and forget not the good which we have of its successive changes, and you will find; of the middle pulley, is a pound weight on mathematically beautiful in every respect, to seen accomplished. But there are some who them subject to the most curious geometrical each; now it makes no matter how much the convert the reciprocatory motion of the piston only look on the dark background of the pic- conditions. You will see that of the four an- pulleys may be revolved, in whatever position into circular motion, as the simple crank. Its ture and see no beauty in the contrast of light gles of the jointed parallelograms, three de- the eccentric pulley (crank) may be to the con- invention was a divine thought. The geomeand shade. Some are continually ridiculing scribe circular arches, but the fourth, which centric one, the two single pound weights, in- trical engineer can detect its properties at a new inventions. The steam engine, the steam - moves the piston rod, moves nearly in a straight | dependent of position, balance the two pound glance, and this was the reason why the great boat, and many other good inventions, had line. The immense utility of this result strikes weight. then supreme judges of wiseacres, who wag- mechanics with less force than the means by ged their heads in portentous dignity at the which Watt attained it." folly and credulity of man. When Fulton's

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fully to delude. The deluders find it very easy the power and effect, to prove that no power matically sure and demonstrative. We have

Properties of the Crank. [Concluded from page 125.]

Few intelligent engineers are aware of the and from the abstract philosophy of the prin- phers in the 17th century, about the forces of take the proportional parts of the space moved ciple of the crank, it is easier to produce an ar- moving bodies; Newton and Leibnitz-the over by the piston, and its excess during one gument against than for it, to the unscienti- greatest philosophers of that day, disputed revolution out of the crank ; therefore 4 feet above us, how many triumphant lucky in- fic. This is the reason why so many contro- about a thing in which they were both right, piston moved 16 feet, excess of motion 9 1-7 versies have arisen about its qualities, and but stated the question differently : so it is feet, 16 feet is 112-7, and 9 1-7 is 64-7, crank such controversies may be expected again .- with many about leverage. What is a lever ? is 48 inches, therefore divide 48 inches into possible to accomplish the object with security The opponents of the crank, never state the Nothing at all but a piece of wood or iron, two parts, proportioned to 112.7 and 64.7, and economy, no one would doubt its impor-tance, nor would there be a single dispute about the author of the articles to which we referred crook becomes a lever when he uses it for a for the 9 1-7 feet, thus harmonizing the velociits advantages and benefits; but at the present in our last. He says that the crank has stood spring pole to vault over the roaring torrent, ty and power in a most simple manner, withmoment, we must say that there is "no hope." in the way of improvements on the steam engine for fifty years. This is doing great injus- crank without taking the operation of the en- tiful collateral proof of the correctness of this tice to many ingenious men that we might gine into consideration, is but a crook of iron, formula, for if we calculate the circle descriname, both at home and abroad, who have and at best is but a peculiar handle on the bed by a crank of 30 6-11 inches, it will be done much to improve the steam engine. But main shaft. It has been proposed to apply a found to be 16 feet exactly-"the centre of let us state one authenticated fact. In 1798, pulley as a substitute for a crank. In two in- power." The excess of velocity in the crank the best of Watt's Cornwall engines did a duraised that amount one foot high. In 1840 the be expected they were poor substitutes. In anything better than a compensation pen-Cornwall engines did a duty of 84,000,000. This was a duty of more than double that done by an engine which Watt thought was perfect.

Those who speak against the crank, say that still maintains its gravity and position, while there is more than one half of the power of the engine lost by it. They have formed their ideas from wrong views of its operation and combination. They say, "the crank is a rigid infiexible lever, firmly fixed and secured to the but for all that, there is a steady advancement | main shaft, operated upon, through the internecting rod, which at one end is attached to

Now this is not true, for by the above des -to avoid the errors we have seen others com- Follow with your eye alternately the progress by cords; on the one side opposite the weight We know of no mechanical contrivance so

steamboat stopped for a short time, owing to they would not wrangle against it, but it is we have a letter from an Engineer in Brooksome defect in her machinery, there can be no; because they do not look upon the modus ope- lyn, (we wish we could publish it, and would doubt, but many shook their heads and said randi of the engine, that so many of them pur- | only we have had so many articles lately on must give the dates of the same, as we candoubt, but many shock their heads and said runner of the eight, that so many of them parts only we have not of many of them parts only we have not of the steam of the time to look our list all through. true respecting one class of men, we are sorry Nay, the articles to which we refer, bring a engine in a dynamical light, the true way, We cannot pay attention to such letters unless r to say, there are many evidently worthless railing accusation against the advocates of the leaves not a grain of sand for the opponents of this request is attended to so far as possible.

to take refuge behind the names and shadows is lost, "oh, that is a mere description of the another letter from Mr. C. Grinnel, of Marion, of departed worth, and many throw out hints modus operandi." It is for want of looking at Ala., which we will publish next week, and of their martyrdom, to false public opinion.- the steam engine in a dynamical light, that thus end this controversy, for a long time at It is very difficult to give advice respecting many make so grave mistakes about it. Some least. In it he compares the crank and rod to new inventions, so far as it relates to a per- of them treat it, like the author in question, as the human arm, and this is the light in which fectly new application. All that can be, done, if it were to be judged in its nature, like the we view it, and we must not talk of it as a admitted to be no leverage, and there are two were no friction, make a machine generate points in the crank circle where it has full le-, power-a thing impossible. verage, therefore as the half of 4 is 2, and The average leverage of a crank four feet the crank 4 feet, the average leverage must be | long, is 30 6-11 inches, with an excess of velo-2." So far so good, but by the same system | city over the piston of 17 5-11 inches, which of reasoning, we could prove that all the pow- makes 4 feet, thus harmonizing all the equiva-For example, "There are two negative and pound moving through a space of 10 inches, two positive points in the crank circle, then will lift a weight of 10 pounds through a space as the negative balances the positive, all pow- of one inch, therefore in estimating the value gative This is as good reasoning as the anti- er and velocity into our calculations. A crank but afterwards it is his simple crook still. A | out the flaw of a fraction; and we have beaustances this was attempted years ago, as de- over the piston, is so happy a contrivance to scribed in the Engineer's Journal. As might regulate motion, that we cannot compare it to turning an axle by hand, that is to convert re- dulum. If we take a cylinder 8 feet long, and ciprocating into circular motion in a natural try to make it describe a circle with a full way, we never think of applying the power by stroke up and down, we will make it describe a rope to the periphery of the shaft. No, we | 25 1-7 feet, the same as the crank. To do this. put a crank on it; and when we use a wheel transfix it with a pin and make it perform one we put the handle on it inside of its rim, and revolution, and what have we but the circle of make it a crank. Does any person suppose the crank. With the velocity of the crank, If we wanted to change a rotary motion into a reciprocating one, such as to use a water third of the power every revolution, but in the common observation, suppose that power was | cording to the laws of Mechanical Science. lost by putting a crank on the wheel shaft, necting rod ? Not one. This is the most simple and best way to do it.

ter, solves the problem in favor of the crank, the "Incomparable Crank." If mechanics could see the utility of this, in as simple, but in a different manner, and

projects often brought before the public, wil- | crank, and say, when they give the sequent of | the crank to stand on. His letter is mathe-

er together would be absorbed in the crank. lents. By the law of virtual velocities, one that there is a loss of power here? Not one. we cannot have the full leverage, for if that were the case, we would gain more than one-

The writer in the Tribune to which we reand attaching it to the pump rod, by a con- ferred, makes the loss by the crank, 62 per cent. This shows us how very far abstract fallacy leads people from direct truth, for in Mr. J. Frost, of Brooklyn, has constructed a Wales, where the power of the engines, are reneat machine to demonstrate by practical ex. gistered by Dynometers, they give out 90 per periment that no power is lost by the crank. : cent., and no difference is perceived between It consists of three pulleys, the middle one the crank engines and those which have no fixed on a concentric spindle, and the other crank. Could these engines give out that on spindles attached to the middle one. On It has always puzzled us to find out the pockthe periphery of the middle one, at one side, is et or hamper, where the crank stowed away

Watt laid aside his beautiful San and Planet Mr. E. Chaffee, of New Brunswick, in a let. motion, for something more beautiful still-

Notice.

Subscribers writing us for Patent Claims 2 172

Scientific American.



LIST OF PATENTS CLAIMS ISSUED FROM THE UNITED STATES PATENT OFFICE,

For the week ending January 8, 1850. To John Bell, of Harlem, in the City and County of New York, N. Y., for improvement in Printer's Type Cases

I confinemy claim to grooving the bottoms of type cases for the reception of the lower edges of the partitions and securing these in them by glue, in the manner herein seth forth and of modes substantially the same.

To James Black, of Philadelphia, Pa., for improvements in Engines operated by Steam and Water.

I claim the manner of combining steam and air for the purpose of giving motive power to the wheel, consisting in a jet of the former being thrown from the nozzle of the pipe into the pipe, simultaneously introducing therein a quantity of the latter, which together are discharged through the lower orifice of said pipe, into the buckets of the wheel, and displacing the water therein, causing said wheel to revolve, in combination with the pipe through which the hot air is drawn from the top of the box or reservoir into the pipe and re-introduced with the steam into the box at its bottom, thus using it repeatedly over again. The apparatus, by means of which the above is accomplished, is constructed and arranged substantially in the manner described in the foregoing specification.

To William Bullock, of Philadelphia, Pa., for improvement in Grain Drills. Ante-dated Oct. 29, 18/19

I claim, first, the rollers which serve to clean the teeth from rubbish and govern the depthof the teeth.

Second, the spring in combination with the sheaves and teeth by which arrangement the whole or a part of the teeth can be held by a spring of the same power and range of movement that it would require for a single tooth.

Third, the moveable bar to which the team is attached, in combination with the mode of hanging the teeth by means of sheaves or other similar device, by which arrangement the teeth will pass over obstructions in which the action of the team in hauling the Drill or Cultivator will bring the teeth forward to their proper places as soon as they pass over the obstructions.

And fourth, the feeding band, substantially in the manner and for the purpose set forth. To Ashley Crafts and Ebenezer Weeks, of Auburn,

Chio, for improvement in Cultivators We do not claim to be the original inventors of any of the individual parts of this wheeled rotary cylindrical Cultivator, but what we do claim is the combination of the levers, roller and driving wheel, in the manner and for the forth. purpose set forth.

To John Du Bois, of Greensboro', Ala, for improvement in Cotton Gins.

I claim the back ribs in combination with the front ribs, they (the ribs) being constructed with a horn or projection on each, behind which they curve downwards, to allow the saws to pass twice between the ribs, to remove the motes and other impurities, in the manner substantially as described .- See Engraving in the several nippers to press with the same No. 51, Vol. 4.]

To G. W. Eddy, of Waterford, N. Y., for improvement in Car Wheels

combination of the rods I claim the connect the hub and rim with the plate or plates are protected against fracture from any sudden jar, and the hub prevented from being separated from the rim should the plate or plates break, as herein described.

To J. G. Goshon, of Shirleysburg, Pa., for improve ment in Smut Machines.

What I claim is constructing the shoe [having the perforated plate for separating large ex. traneous matter from the grain] with a screw for separating the cockle and cheat from the grain, and an imperforated plate and spout for gles conducting the same to the outside of the machine as described.

ent in Curing Tobaccostems

What I claim is the process of curing stem or other parts of tobacco with charcoal by combining or mixing the two together, substantially in the manner and for the purpose herein set forth.

To W. M. Hughes, of Howard Co., Mo., for improed Ore Washer

What I claim is separating substances differing in specific gravity or washing metallic ores by means of oblique currents of water and a horizontal one passing over the same in a reverse direction, substantially in the manner herein described. The oblique currents being produced by inclined surfaces or their equivalents.

To Wm. Maguire, of Cincinnati, Ohio, for method of ounterbalancing Sash by means of a heavy weight. What I claim is counterbalancing the sash,

(and consequently enabling it to be suspended at any desired point) by means of metallic racks within the window frame, these racks being operated by pinions rotating on fixed shafts within the window frame and these pinions being driven by other racks attached to the sides of the sashes throughout their entire length, the whole being constructed and arranged in the manner and for the purpose set forth.

To L. W. Miller, of Mesopotamia, Ohio, for improvement in connecting cutters to shafts of boring struments.

What I claim is the fastening, by which the knives are affixed to the mandrel, being a keyed ring to sustain the shank of the knives firmly, in adjusting slots in the mandrel, substantially as above described.

To E. G. Pomeroy, of St. Louis, Mo., for improve ment in coating iron with copper or its alloy. What I claim, is, first, the before described

process of coating and impregnating iron in all useful shapes and forms with copper or any alloy of which copper forms a part, the said process consisting of cleansing with sulphuric acid, defending the cleansed surface with a coating of clay or other aluminous earth-drying the same, and then plunging the article thus coated into a melted copper, or some alloy of that metal.

Second. I also claim the use of the clay paste to protect the metal from oxidating during the process of alloying or coating the metal plates, or pieces of iron, as herein set forth. To Z. C. Rebbins, of St. Louis, Mo., for improve ment in Churns.

What we claim is the placing the inner surfaces of the series of outer blades, in positions tangential, or nearly so, to their circle of rotation, when they are combined with the inclined inner series of blades, substantially in the manner and for the purpose as herein set forth. Not intending, however, to limit myself to the exact number, proportions, positions, and arrangement of the dasher blades, as herein described and represented, but shall vary them to suit the different sizes of churns required for operating upon cream, whilst I attain the same results by means substantially fibres. the same as those herein particularly set

To F. Slaughter & D. Perry, of Fredericksburgh, Va., for improvement in machinery for making Cotton Cordage.

What we claim is the constructing the nipper springs of parallel bars, (one or both of which may be made elastic,) having series of holes (or slots) formed in them for the reception of the connecting and adjusting screw bolts, for the purpose of enabling us to cause amount of power and elasticity upon the slivers during their passage through the nipper heads; and also to vary the elasticity of the springs as circumstances may require, substantially as herein set forth.

To James Spratt, of Cincinnati, Chio, for improvement in alloys for points of lightning rods.

What I claim is the formation of an alloy, composed of English block tin, oxide of tin, antimony, bismuth, refined silver, platinum, and silex. In proportions as shown in the specifications, and for thepurpose of being manufactured into lightning rod points.

To A. Welch and R. Walker, of Bennington, Ind., for improvement in Machinery for Dressing Shin-

planes guided and moved to and fro in the certain conditions give it out. Thus, if red or es of silver to the ton.

plates in front of the plane-irons for holding the slab, and those behind the plane-irons for discharging the finished shingle from the machine, the whole being arranged and operating as herein set forth.

To Wm. Wood, of Westport, Conn., for improvement in machines for cutting shingles.

What I claim is the mode of moving the carriage sideways, and forcing the same toward the knife, alternately, by means of the cams moving over the grooved shaft, by means of the bar and groove operating on the curved bars, cams, inclined bars, and bolts, arranged in the tubes, and pressed against the notches of the slotted bars by the spiral and other springs, the whole arranged and operated substantially in the manner and for the purpose herein set forth.

To O. Wright, of Rochester, N.Y., for improvement n Mills for sawing irregular forms.

I claim the mode of raising and lowering the table or platform on the segmental plates or bars for adapting the same to any thickness of timber to be cut, and keeping the middle of the timber, between its top and bottom always in a line with the centre of which the segmental plates or bars form arcs of circles, through which (the centre) the saw passes, to prevent it from bending in the timber when sawing a curvilinear surface, by means of the ribs having slots near their ends, through which the screws which enter the segmental plates or bars, pass in the manner herein described .- See Engraving in No. 3, Vol. 5, Sci. Am.]

DESIGNS. To H. L. Shepherd, of Dayton, Ohio, for Design for

Stoves. RENEWAL.

To A. Morse, Jr., of Boston, Mass., for improve nent in Capstans. Patented March 12, 1846.

The invention here claimed is the improve nent of the ships or vessels' capstans, so that increased power may be obtained at pleasure as above made known, with the arrangement, application and adaptation of the several parts as described.

Singular Electrical Phenomenon.

MESSRS. EDITORS-In the fore part of the month of December last my attention was called by my wife to a piece of brown new silk folded up in a bureau drawer. On approaching it with a lighted candle, it being night, I particles or atoms of various colors, some golden hue, others green, and some the colors of brilliant stars. When a hand was gently rubbed or drawn over its surface these sparkles vanished with a crepitating noise, and when another fold was opened the same phenomenon occurred. I wondered at the time whether these could be electrical atoms, but knowing that silk was a good retainer of electricity, and its fibres being brilliant, I was inclined to an opinion that the sparkling atoms were silk

On the 8th of the present month my attention was again called to this same piece of silk, which had been deposited in the same place. This time, it was in he day time, between 11 and 12 o'clock. I ordered it to be brought; down stairs into my room, as gently as possible. Here I laid it in the light of a window, and I observed the shining atoms vanishing from its surface-much like the disappearance of fine dew drops. I raised another fold of the silk and passed my hand close to its surface, when the particles discharged with crepitating reports in the character of a feu de joie. As the folds were opened, these particles would vanish without the proximity of conducting substances, and peculiarly fast in the light. It appears to me that what I have only heretofore known to exist, I have now seen to exist. And I believe these particles were electrical matter. What think you of it, gentlemen? JOHN WISE. Lancaster, Pa., Jan. 10, 1950.

N. E.-The other silk about the house did not exhibit the same phenomenon.

[These particles were, without doubt, electrical sparks. There are some colors more electrical than others; although we cannot say What we claim is the combination of two that they conttain more electricity, but in kansas. The ore is said to yield 120 oun-

To Thos. Hoyt, of New York, N. Y., for improve- straight converging grooves with the spring- yellow silk is dried at a temperature of 300°. and taken immediately out of an apartment of that heat, long sparks of electricity will be given out by drawing the hand over it. We have often seen this phenomenon. Cotton yarn impregnated with alum, and dried at 300° Fahr., exhibits the same phenomenon. When either the silk or cotton becomes cold, the electrical phenomenon disappears. Brown silk is prepared with alum as a basis for the color, and both yellow and red dye are employed in the coloring of it. We have never seen a notice of the facts we state in any work on electricity, nor do we know if philosophers generally are aware of the same .--- [EDS.

Great Meeting of Gas Consumers .-- Proff. Grant's Light.

A very large meeting of gas consumers, was held in this city on last Wednesday, and a committee appointed to draft resolutions requesting the Legislature to investigate the affairs of the Gas Cos. of the city. It seems that while these Companies furnish light to the inhabitants, their affairs are kept greatly in the dark.

Professor Grant explained a plan by which the City could be lighted at a five thousandth part of the expense now incurred. The light is of his own discovery, and the principal ingredient is nitrate of soda, which can be had in inexhaustible quantities in South America. the residum of the soda after being used. would be more valuable than the article in its crude state. One of those lights placed in Broadway corner of Canal-st. on the top of a house, would enable a person to read throughout the whole of that street and neighborhood. He has one of them in use on the locomotive "Rough and Ready," on the Philadelphia Railroad line. By it the engineer can see three-quarters of a mile ahead, and is enabled to observe the switch-pole for half a mile .--The expense of that light for four nights was only 25 cents.

A committee of three were appointed to exami e this new discovery and report upon it.

The Importance of Conversation.

Daniel Webster said in the course of a speech at Dedham, Massachusetts, before the Norfolk County Agricultural Society, that "Every man obtained a great part of whatever knowledge he might possess by conversation and communication with others. Books inobserved it shining and sparkling with minute deed might do something in this respect, but nothing in comparison with free communication. If we should deduct from the aggregate of each man's knowledge, whatever he had learned by communication and conversation with his fellow-man, very little would be left and that little not worth much at best. It was intercourse with each other that made men sharp, and active, and enterprising."

> Daniel Websteris right in his estimate of the value of conversation, but were there no books to read there would be very little conversation worth listening to, in our estimate of things. Books are the things that furnish texts for conversation. and we never knew any man whose conversation was very gifted, who was not a reader; every one knows this to be true.

British India.

It contains 100,000,000 of people : is provided with an army of 300,000 men, who support costs \$70,000,000 per annum, the whole public revenue of India being only twice \$70,-000,000. There are thousands of military officers brought from Europe, whose appointments are a source of patronage in the hands of influentialmen. In 1846, the public debt of India (apart from that of England) was \$187,-000.000, the annual interest on which was nearly \$9,000,000.

The Ocean Steam Navigation Company.

The proprietors of the New York, Southampton and Bremen line of steamships, have decided to resume the monthly communication between this city and Bremen, on the 20th proximo, instead of waiting until March as before announced. The Washington will sail first, and the Hermann on the succeeding month.

A piece of Lead Ore, weighing 1,500 pounds' was recently received at New Orleans from Ar