the jar and with a paper cutter, and perhaps water. If it sinks at all it will go to the of essays and lectures written and delivered Bell a brush, smooth them into their places. make a good job of it.

difference in the energy of a boiling liquid in being the same for each place? What is the intensity of an ordinary saturated steel magnet as compared with the earth's magnetism for any given locality? A. The boiling point of a liquid is independent of the latitude, and the energy of the steam is the same for all places where the temperature of boiling is the same. The temperature of boiling is the same for all places which have the same barometer reading, wherever they may be on the earth's surface. The magnetic intensity of a steel bar magnet is, according to the tables given in Thompson's "Electro-magnet," from 14,000 to 16,000 lines per square inch.

(10434) J. T. says: 1. What is the cause of the large ring which appears around the moon in threatening weather? A. The lunar and other halos are produced by the action of the drops of moisture or ice crystals the eye. 2. Why does not the atmospheric pressure, 15 pounds to the square inch, crush the A. An incandescent lamp bulb it because it is strong enough to hold up 15 pounds per square inch. An empty eggshell inch on its end. 3. Why does not the upward stroke. The feathers do not return upward so as to present the same resistance to the air as they did when they were struck downward. 4. Why is the power of a telescope or microscope limited? A. The magnifying power of a people use but one eye at a time when both eyes the image in the extreme powers. The telescope others the left eye at their ordinary work. is limited by the faintness of the light at great dispersion, and more by atmospheric condi-

(10435) B. D. M. says: 1. Is it possigive illustrations. A. It may be possible to it away, I can get a powerful charge by placgenerate light without heat, but it has not yet long my other hand on the metal. Can you been done. It is one of the ignes fatui of inexplain? I also find the lamp "burned out," ventors, like the utilization of tidal power proof that ice freezes at the underside, after a layer has formed, and not at the top. A. The proof that ice forms from the underside is that water is in contact with that surface of the ice and the upper surface is at the same time dry. The ice increases very rapidly in thickness to the extent of several inches on a severe night. The only other source of moisture is the vapor of the atmosphere, and that is not sufficient in quantity to supply the amount of ice which forms in a few hours. If the ice came from the air, the rapidity of its precipitation would exceed that of a heavy rainstorm.

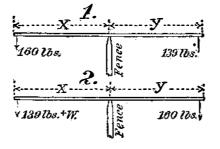
(10436) J. L. B. says: On page 199 of the Scientific American of March 2, 1907, in the Notes and Queries department, No. 10409, you say a vessel sinking will always go to the bottom, because the water pressure will tend to make it heavier with reference to the water. Why will it be made heavier than the water? I can understand the water compressing it to a given extent, but not to such an extent as to make it heavier than the water. You also say that "at greater depths it will be able to sink faster, since the water is not compressed to any extent at greater depths than it is near the surface." Some years ago Dr. Dall, of the Some years ago Dr. Dall, of the Smithsonian Institution, showed that the compression of water on the ocean bottom was about two tons to the square inch, and higher up about half a ton. Would a vessel be com pressed to such an extent in sinking? It seems to me that this would mean that a vessel weighing two tons would need to be compressed more than enough to occupy a square inch at bottom to cause it to sink. Since you say it would that although the ocean bottom had been in the first position. sounded for several miles deep, bottom had never been found in Lake Tahoe, because (as explained) the water pressure prevented the weight used from sinking more than several miles, at which point the temperature of the water was considerably below freezing, but on account of the great density of the water it was unable to congeal. I fail to understand how water is able to compress an object to a greater extent than the water itself is compressed, and when both are compressed to the same extent, the object hangs suspended in the water without moving in either direction. The periodical above referred to reasons from this that the bodies of the people drowned in this lake (none of which have ever been recovered) are compressed to the size of a new baby, and are suspended, frozen stiff, about two miles below the surface. A. A vessel which is lighter than the water will not sink in water: a vessel in order that it may sink must be heavier than water at the start. All iron ships are heavier than water. So are wooden ships when ballasted. Such a vessel will sink if filled with

A bottom, since water is compressed but little by! at various times by the author, detracts nothlittle practice and handiness will enable you to the pressure it sustains, and iron, wood, etc., ing from its value. Indeed, had it been are compressed more than water by the same planned and written as a co-ordinated whole, (10433) E. E. L. says: Is there any pressure. Dr. Dall showed that the pressure instead of being a compilation of separate esacretion at the bottom of the ocean was two tons to the says, etc., it must still have been recommended different latitudes, the atmospheric pressure of the mater was two tons to the of the water. Water is not compressed a very great deal by a pressure of two tons to the square inch, not so much as a stone would be. Water is compressed about 1-75 part by that pressure, that is 75 cubic inches would become 74 cubic inches, and not, as you say, to 1 cubic inch. With reference to what you quote from a paper about Lake Tahoe, we can say that it is impossible. Water cannot be cooled below nearly half a century. When Sir Andrew freezing by any possibility and remain water. Nobel entered the service, the line-of-battle in an open lake. And water must be colder on ships in the British navy were all sailing top if the temperature of any part of the water is at the freezing point. Dead bodies are not frozen in water down deep below the surface. Nor is water ever dense enough to prevent lead from sinking in it,

(10437) C. B. R. asks: Will you kindly explain who has the advantage in the following case, and why? In shooting at flying in the air upon the light as it comes toward targets thrown from the traps, I shoot with on Friction in the Bores of Rifled Guns, and both eyes open. My friend claims I should close those dealing with the Tension of Gases Exone eye, as I could get a better alinement of panded Without Doing Work, will be read with small incandescent electric lights, which are supposed to be exhausted of air, or any other and quicker sight at my target by using both the subject of erosion of guns is so much in Please explain what part the left eye eyes. is not crushed by the pressure of the air upon plays while shooting right-handed. Do I shoot crossways, look crossways of the gun barrel, or do I unconsciously sight with one eye, while will hold a pressure of 675 pounds per square both are open? Give the theory of aiming a gun with both eyes open. A. If you can shoot subject has been described as "simply chaotic" motion of a bird's wing completely neutralize with both eyes open and hit, it must be that you and the description of the investigation made the effect of the downward motion? A. The aim with the right eye and disregard the line by Sir Andrew Nobel and his associates of the up stroke of a bird's wing is executed so as to of sight from the left eye to the target. You action of powders when fired in completely take the air at a different angle from the down can test this by looking along the gun without inclosed vessels, makes extremely interesting shooting with both eyes open. You can determine whether the sights are in line with the right or with the left eye. We do not know any theory of aiming with both eyes open. Most microscope is limited by the indistinctness of are open. Some habitually use the right and

(10438) J. O. B. says: I find that upon holding an electric light incandescent lamp by the glass and applying the metal $t\boldsymbol{o}$ an idler on the main belt of the dynamo ble to generate light without heat? If so, (which gives about 15-inch spark) and taking reputation for accuracy and voluminous inforbut it still gives the above results. A. By and of the heat of the sun's rays. 2. Give holding the incandescent lamp as you describe you charge it as a Leyden jar is charged, and Manual Appendix, have been incorporated; upon touching the metal which is connected to the inside of the jar you receive the shock of Ready Reference Bond List; second, Table of the discharge. The metal and the filament are Annual Meetings, Transfer Agencies, etc.; the inside coating, and your hand holding the third, Table of Dividends paid for eight years. bulb is the outside coating. The charge is a charge of static electricity.

> (10439) P. A. O. says: Will you be kind: enough to give the answer to the following problem, which has agitated the best mathematicians of our town recently: A farmer and his wife desired to weigh a pig, and had no scales. The man weighed 160 pounds and his wife 139 pounds. They put a board across a fence so that when they sat upon each end of the board it exactly balanced. Then they changed places, the wife taking the pig in her lap, just balancing the board again. How much did the pig weigh? A. Your problem may be solved in the following manner: Referring to



accompanying sketch No. 1: x = distance fromthe first position of the man to the fence. y = distance from the first position of the wife to the Let w equal weight of the pig. Then 160xword for it, but I can't understand it. Again, I read in a scientific periodical called The Lens (date of publication understand) (date of publication unfortunately forgotten) takes the pig in her lap, and they again balance as

> Therefore: (139+w)x=160y.Also from sketch No. 1: 160 x = 139u160y 139 + w _39y 160 = <u>139y</u> 160y $\cdot \overline{139+w}$

Therefore the pig weighs approximately 45 pounds.

NEW BOOKS, ETC.

 $160^2 = 139(139 + w)$. w = 45 + pounds.

ARTILLERY AND EXPLOSIVES. By Sir Andrew Nobel, Bart., K.C.B. York: E. P. Dutton & Co. Large 8vo.; pp. 548. Price, \$6.

The fact that this work consists of a series

INDEX OF INVENTIONS

	of essays and lectures written and delivered	Bellows, pressure regulator, P. Wuest, Jr. 845,841
	at various times by the author, detracts noth-	Bill head, duplicate, label, receipt, and envelop, combination, J. Souder 846,064
	ing from its value. Indeed, had it been planned and written as a co-ordinated whole,	I Billiard cue. W. H. Thomas
	instead of being a compilation of separate es-	Binder, temporary, H. J. Reuter
	says, etc., it must still have been recommended	Binders, hinged post for loose leaf, L. M. Morden
n	for what it is, namely, a reference work to	Bird cage, A. B. Hendryx 845,785
У	which the student of artillery and explosives	Blank cutting machines, counting device for, E. G. Souther
ıe	will turn for information on subjects upon	Boiler attachment, steam, B. A. Estep 846,100 Boiler cleaner, J. A. Ray 846,051
e. at	which correct information is only too scarce. The great value of this work will be at once	Boiler fire box. C. W. Hullings 846.310
ie	I T	Bolts, pins, etc., machine for making, J. F. Lober
ic	largely of a record of the experimental work	Book cover or protector, Flohr & Miller 846,195 Book, triplicate manifolding sales, E. K.
m	1	Bottle 846,002
	covered by his industrious professional life of	Boot cleaning and polishing outfit, A. J. Brooks
	nearly half a century. When Sir Andrew Nobel entered the service, the line-of-battle	Boot machinery, W. Heaton
	ships in the British navy were all sailing	Bottle Carping machine, G. Kirkegaard. 846,177 Bottle capping machine, G. Kirkegaard. 846,218 Bottle carrier, C. B. Hall
	vessels, and their armaments and appliances	Bottle carrier, C. B. Hall
ot	differed but little, except as regards size, from	Bottle filling machine, cased, T. L. Valerius 846,169
e.	those used in the days of Henry VIII. and	Bottle, nursing, H. D. Singer
d	Queen Elizabeth. The spirit of conservatism pervaded both services, and the introduction of	Bottle protector, milk, J. Grossman 845,777 Bottle washer, G. K. Watson 846,269 Bowling pin, F. M. Wood et al. 846,372
	rifled ordnance was received with the greatest	Bowling pin, F. M. Wood et al 846,372
u	distrust. It is impossible to speak in any de-	Box fastener, G. A. Prather
ıe:		Box making machine, F. R. Harris 846,410 Box opener, J. Marshall 846,438
	chapters on the Tension of Fired Gunpowders,	Bracket, A. A. Ficener
	on Friction in the Bores of Rifled Guns, and	Brick machine, H. L. Hix 845,872
	those dealing with the Tension of Gases Expanded Without Doing Work, will be read with	Brick machine, H. Armstrong 846,277
er	. =	Brickmaking machine, E. R. Sutcliffe 846,258 Bridge and bridge guard or railing, S.
h	the subject of erosion of guns is so much in	Richardson 845,897 Brooder, N. C. Sprague 846,155
e	the public mind. There is probably no one	Brooder, N. C. Sprague 846,155 Brush, T. Brantley 846,003 Brush, H. Delle 846,287
ot or	who has had wider experimental knowledge of	Brush making machine, W. G. Liebig 845,959
le	the subject treated in this volume than its celebrated author. When he first took up the	Brush, scrubbing, J. Rich
a		Bucket making machine, J. A. Watt
t	subject has been described as "simply chaotic";	Button and drawers supporter, combined trousers, J. T. Lane. 846,321 Button machine, wire, F. Marggraff 846,330 Cabinet, merchandise, L. Matthews, Jr. 846,121 Cabinet table, kitchen, Z. Knapp. 846,319 Calculating machine, W. R. Bonham 845,747 Calendar, R. C. & P. Sellers 846,250 Caliner gage generating R. J. Booker 945,800
u i		Button machine, wire, F. Marggraff 846,321
	by Sir Andrew Nobel and his associates of the action of powders when fired in completely	Cabinet, merchandise, L. Matthews, Jr 846,121
ıt İ	inclosed vessels, makes extremely interesting	Calculating machine, W. R. Bonham 845,747
r-	and profitable reading.	Calendar, R. C. & P. Sellers 846,250 Caliper gage, combination, B. J. Roehm 845,899
e	Poor's Manual of the Railroads of the	Caliper gage, combination, B. J. Roehm 845,899 Camera, C. I. Flory
У	United States. Street Railway and	Can. See Display can. Can jackets or other receptacles, handle for
t!	Traction Companies, Industrial and	Can jackets or other receptacles, handle for sheet metal, G. W. Weber
d.	Other Corporations, and Statements	Brenzinger
1	of the Debts of the United States, the Several States, Municipalities, etc.	Canopy standards, guiding and supporting mechanism for, P. F. Swart 845,906
.	New York: Poor's Railroad Manual	Car construction, E. I. Dodds
t	Company, 1906. Large 8vo.; pp.	Car coupling, S. Morris. 846,128 Car door, J. Montgomery. 846,126 Car door, J. Montgomery. 846,126
0	1808. Price, \$10.	Car door fastener, R. Mobley
o [With its 1,808 pages and its well-earned	Car, dumping, F. Peteler
g:	reputation for accuracy and voluminous infor-	Car operating mechanism, dumping, H. F. Ball
}- :	mation, this number continues to hold for the Manual the high place which it won among	Car platform, vestibule, C. W. Bremken 845,750
u	railroad men and the public generally many	Car platform, vestibule, C. W. Bremken 845,750 Car replacer, W. A. Hutson 846,311 Car side bearing, W. W. Wooll 845,839
v i	years ago. The following important features,	Car stake, gondola, Moody & Simms
e į	heretofore published separately in the Railroad	Car standards, self clearing chain stay for.
đ į	Manual Appendix, have been incorporated;	G. W. Du Bes
0	namely, first, all data embraced in Poor's Ready Reference Bond List; second, Table of	Car underframe structure, transverse, E. 1.
	Annual Meetings, Transfer Agencies, etc.;	Dodds
		Company to the company to the company of the compan
е:	third, Table of Dividends paid for eight years.	Cars, carline for railway, C. A. Lindstrom,
a:	By the addition of the new features referred	845,960, 845,961
a :	By the addition of the new features referred to and the natural expansion of the regular	845,960, 845,961
a :	By the addition of the new features referred to, and the natural expansion of the regular departments of the book, the work this year	Cars, etc., guard or gate for street, G. A. Metcalf
a :	By the addition of the new features referred to, and the natural expansion of the regular departments of the book, the work this year has increased in text 192 pages, the statements	Cars, etc., guard or gate for street, G. A. Metcalf
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