glass to enable one to see the bottom of a lake, derth from 50 to 100 feet, water clear as crystal. I notice in "Scribner" mention made of a water glassin use for such purposes on the eastern coast and islands, but does not state how made. A. Any small telescope with a large objective and an eyepiece of very low magnifying power will answer very well for this purpose, provided the joint of the object glass is watertight.

(24) L. D. W. asks: In throwing water through 200 feet of hose with fire engine is the pressure on first length of hose greater than of any others? If so, why? A. When discharging, yes; because the friction of the additional length of hose expends a portion ILLUSTRATED RECORD OF BRITISH PATENTS. of the pressure in the first length.

(25) J. P. S. asks whether in dies used for cutting shect iron blanks both dies must be tempered, or whether it will suffice to temper the female die only and let the male die be soft so it can be peaned up when dull. The sheet iron to be cut is 27 and 28. A. Both dies should be tempered.

(26) I. H. B. asks: 1. What is the best lubricant for the main journals of large engines? I use clean cotton waste with lubricant on top of it; the waste serves to catch the grit if any and mitigate the flow of hot oil. Is there anything better? A. Some of the special mineral oils are used as you describe. 2. Should cylinder cocks be left open in running when they are made to work automatically and the engine works equally well with them shut? A. No. 3. Whose work best treats of heat and power as applied to mechanical forces? A. "Cotterill on the Steam Engine as a Heat Engine." 4. Which is the most economical in practice, a single cylinder expanding the steam down to the atmospheric line, or a compound engine of the same initial capacity-steam pressure and vacuums of each being equal and making the same number of revolutions per minute? A. Theoretically there should be no difference, but practice favors the compound engine.

(27) J. H. A. writes: I notice that nearly all force and lift pumps have an air chamber through which the water is forced. Is the chamber any advantage except to deliver the water in a continuous stream. and perhaps make the force a little easier; and does it make the lift more effective? A. The use of an air chamber is to prevent shocks, or "water hammer," in the pipes, and render the delivery more uniform. It does not make the pump more effective.

(28) F. A. B. asks: Would it be possible to carry steam 300 feet through 21/2 inch pipe well covered, with 100 lb. pressure to drive engine? What lineal expansion would there be, and what loss by condensing, etc.? A. Yes; the pressure at the engine would probably be 3 lb. to 5 lb. less than at the boiler when the engine is running. Expansion 61/2 to 7 inches. Condensation depends upon covering, it may be from 0.08 to 03 lb. water per square foot of surface per hour.

(29) G. W. G. writes: I am making a Holtz electric machine, from directions in Supplement No. 279, with a 12-inch revolving plate. 1. On which side of the apertured glass are the paper inductors pasted. Also, are the gilt papers on the same side as the inductors? A. The inductors and gilt paper are on both sides of the glass. 2. Is it necessary that the spindle holding the revolving plate be perfectly insulated? A. No. 3. Can anything else but vulcanite be uesd to excite the mechine? A. Anything that will generate enough electricity will answer but vulcanite is probably the best.

(30) M. S. asks: Can wrought iron anvils plated on the face with steel be retempered? If so, what is the best way to temper them? A. You can try the experiment by filling a vessel (large enough to contain the anvil) with water; place bricks or other support for the anvil, so that the top of the anvil will be about one inch below the top of the vessel; have a hogshead or tank filled with water and elevated 5 to 10 feet above, with a pipe from it so arranged as to discharge water on the face of the anvil. When the anvil is properly heated lower it into the first tank face upward, then open the pipe from the higher tank to discharge the water on the face of the anvil till it is cooled. When you open this pipe. keep away from the anvil, as if any portion of the steel is not welded, it may crack and fly off with considerable force.

NEW BOOKS AND PUBLICATIONS.

OPHTHALMIC OPERATIONS, WITH REMARKS ON AFTER-TREATMENT: THE OPHTHAL MIC USE OF QUININE AND ITS THERAPEUTIC ACTION. By A. Sibley Campbell, M.D., Augusta, Ga. 8vo pamphlet, pp.

The first of these papers consists of a description of several cases of diseases of the eye which came under the author's treatment, and which form the basis of certain remarks which he subsequently makes in regard to the after-treatment in cataract extraction and other sur cal operations on the eye, together with a consideration of the therapeutical action of quinine in such cases Among the manifold applications of quinine in diseased conditions of the system It is found especially applicable in abnormal conditions of the eye, whether these have resulted from disease or from surgical procedures. Nowhere in the text books on therapeutics is there given or attempted a generalization of the action of this valuable remedy. In the paper before us, the author attempts to supply this wide-felt deficiency by enunciating the following views, which are essentially those published by Dr. Robert Campbell in 1858-9. The prominent and specific action of quinine is due to its direct influence on the vascular system through its power of contracting the blood vessels, acting thus on their middle or muscular coat. and hence on the unstriped, assisted, possibly, by the elastic fibers constituting that structure. This action is primarily on the blood vessels, especially on the small arteries, where muscular fiber predominates, and without the intermediary action of the vasomotor system. Possibly the vasomotor system afterwards aids in the process of contraction; but if so, only secondarily, by the same general influence now exerted, with the rest, on its own circulation. Hence the action of quinine on the vascular system is that of a constringent, and its effects may be termed syntonic.

(23) M. R. G. asks how to make a water | Such being the action of the remedy on the vascular system at large, the explanation of its therapeutic influence in abnormal conditions of the eye follows as a corollary. LATHE WORK. By Paul N. Hasluck. London: Crosby, Lockwood & Co.

[OFFICIAL.]

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	39	395	
	Middlings, separator. W. J. Fender (r)	9,706	
37 12 18	Mill for pulverizing hard and refractory materials, C. Ross, Jr Milling cutter, A. Muir		
5	Milling tools for grinding, machine for holding, S. Lawton.	-	
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1 7 8	Oil can, J. Skerry	241,737	
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1 7	Pipe wrench, W. T. Kosinski Planing machine, metal, F. A. Pratt Planter, hand corn, J. G. Morton	241,563	
6	Poke, animal, D. Brintnall	241,602	
1	Postal card, W. Armstrong Power, device for transmitting, A. Jarolimek	241,5 23	
4 9	Preserving organic substances, C. F., A. W., & A. L. Lawton	241,677	
6	Pressure rollers, air cushion compression cylinder for, G. W. Nichols.		
3 5 8	Printing press feed gauge, E. L. Megill	241,555	
3	Pump, B. C. Vanduzen	241,573	
l,	Pump, steam, R. J. Pettibone	241,714	
2 '	Pyrites, furnace for burning, J. Mason	241.685	
1	Railway sleeper and chair, J. C. Rupp		
2	Razor guard, L. C. Allin	241,583 241,667	
2	Reflector, lamp, H. E. Haley	241,649 241,491	
	har (r)	9,71 0 241,515	
1	Rule and printing form, column, G. Trimble	241,759 241 616	
!	Sash fastener, F. J. Grodavent Sash fastener, J. R. Terry. Saw for cutting snags, drag, J. W. Swales.	241.753	
1	Saw mill, gang, G. W. Nichols	241,699	
2	Saw set, W. Dunn Saws, air cushion compression cylinder for gaug, G. W. Nichols	241,701	
2	Saws. mechanism for oscillating the slides of gang, G. W. Nichols	241,700	
, , ,	Seal lock for freight cars, Dewe & Bailey	241,630	
i	Spratt Seat fastener, H. P. Colby.	241,568 241,620	
	Seed meal machine for separating and cleaning cotton, O'Brien & Franck	241,5 60 241,772	
,	Sewing machine, D. H. Campbell241,608 to Sewing machine, W. G. Wilson et al	241.613 2 4 1,77 0	
)	Sewing machine clutch device, J. H. Bullard Sewing machine needle, J. W. Packard	241,708	
	Sewing machine, rotary shuttle, A. M. Leslie Sewing machine, ruffling attachment, W. T. John- ston (r)	9,712	
,	Sewing machine take up and tension device, J. Hoefier	241,660	
	Shade, window, P. Michel	241,760	
, -	Ship, steam, J. E. Mouland Siphon, Lathe & Cross. Skate, combined runner and roller, W. H. Rush-		
3	forth	241,548	
;	Snow and earth excavator, W. H. Knight	241.769	
	Spark arrester, J. Abell	241.641	
7	Stamp protector, J. L. Lilienthal Starch from Indian corn and other grain, obtain-	241,678	
3	ing, T. A. & W. T. Jebb	241,554	
li	Steam brake, locomotive, D. S. Randolph	241,586	
, ,	Steam engine, oscillating, J. C. Miller Steam trap, N. P. Aldrich	241,503	
2	Steamer and drier, wheat, C. T. Hanna (r) Steel articles and apparatus for the same, harden-	9,711	
, ,	ing hollow, W. Lorenz. Stew pan, G. Hill. Stove, gasoline, G. L. McMillan	241.658	
2	Strainer for the outlets of tubs and basins, W. Slow	241,739	
ا ا :	Surgical dilator or tent, Stohlmann & Pfarre Telegraphs, etc., sectional wire for, L. D. Hamil-	241,569	
) }	ton Telephone, magneto, C. Ader Telephone signal, G. H. Bliss	241 590	
3	Thill lug. metallic, H. L. Norris. Ticket register, E. De Jong	241,704 241,479	
3	Time table and advertiser, E. L. Birch	241,768	
5 1 3	Toe weight, G. C. Sherman	241,594	
ļ	Twisting and spooling machine, D. C. Stover Valve, automatic air, J. H. Blessing	241.747	
ñ 5	Valve, combined air and check, J. H. Blessing	241,597	