# Scientific American.

208	
Punching machine, I Long 247.465	Windmill, G. A. Rowland
Punching machine, J. Long	Window screen, J. Forhan
Pyrometer, hot blast, E. Brown	Window shade, H. B. S. Norman
Williams	
Quicksilver feeder, P. C. Du Bois	Wood preserving composition, E. R. Andrews 247,234 Wood working tool handle, J. F. Green 247,188
Railway chair and tie, L. Haas 247,248	Wrench. See Monkey wrench. Socket wrench.
Railways, gripe attachment for cable, Stanford & Root 247.276	
Rake. See Hay rake.	DESIGNS.
Recorder. See Speed recorder. Reflector, W. Wheeler	Button, sleeve, J. W. Miller 12,482
Regulator. See Steam draught regulator.	Carpet, H. Horan
Rock drills, core lifter for annular, G. F. Case 247,303 Roll, F. W. Coy	Carpet, W. L. Jacobs
Roller mill, J. L. Willford 247,284	Carpet, J. B. Neil 12.483 Carpet, J. Pegel 12,489
Sash balance. P. H. Fox	Statuary, group of, J. Rogers
Sash fastener, W. D. Doremus 247,468	Watch case, H. Untermeyer
Sash holder. C. B. Clark	
Scoop, Webster & Chivill	TRADE MARKS.
Screen. See Window screen. Screw clamp, E. R. Osgood	Baking or yeast powder, City Baking Powder Com-
Seat. See Spring seat.	pany
Separator. See Grain separator. Sewing machine, D. H. Coles	Canned goods and packed and preserved goods. such as fish, meat, fruit, and vegetables. J.
Sewing machine, T. S. Huntington 247,357	Laidlaw8.655
Sewing machine feeding mechanism, A. L. Par- celle	Cigars, R. Allones
Sewingmachine hand wheel, A. L. Parcelle 247,398	Cigars. R. Cuevas & Co 8,651
Sewing machine quilting attachment, W. H. Dam- ron	Cologne water, J. M. Farina
Sewing machine trimming attachment, L. L. Bar-	Company 8,648
ber 247,290 Sewing machine, wax thread. E. Woodward 247,285	Flint, sand. emery, and match papers and cloths, Wiggin & Stevens
Sewing machines, device for supporting crank shafts and balance wheels of, J. W. Foster 247,186	Liniment. VV. H. Patterson 8,658
Shaft coupling. W. Meyrick 247,265	Medicine, proprietary, H. C. Stewart
Sheller. See Corn sheller. Shock binder, E. Evans	chine Company
Shutter, A. H. Hill	Ubert
Signaling apparatus, visual, R. Einbigler 247,323 Siphoning or drawing off water, starch liquor, and	Starch, C. Morningstar & Co
impurities from tubs or tanks, apparatus for,	Wood working machinery, certain, J. A. Fay & Co. 8,653
W. G. Taylor	FOR THE WEEK ENDING SEPTEMBER 13.
Smelting ores, apparatus for, T. G. Hall 247,342	Canned mackerel, Pickert. De Butts & Co 8,639
Smelting ores and producing refined metal, process of and apparatus for, T. G. Hall 247.341	Carpet. ingrain, J. 11. Gay
Smoking tube, E. A. Smith. 247.425 Socket wrench, W. E. Wild. 247.454	Petroleum. refined, H. W. Peabody 8,645
Sofa and lounge, T. Hofstatter, Jr 247,350	Soap, W. Mulchahey
Soldering machine, J. O'Laughlin	Whisky, E. il. Taylor, Jr., & Co
Sole edge turning or bending machine, C. Chabot. 247,305	Wine, champagne, C. H. Mumm & Co
Soup compound and process of preparing, vegetable, J. D. Warren	Advertisements.
Spark arrester, W. Knowalski et al 247,256	
Spark arrester, locomotive, J. K. Taylor. 247,434 Speed recorder, W. W. Wythe 247,459	Inside Page, each insertion 75 cents a line. Back Page, each insertion \$1.00 a line.
Spike, J. Horrocks	(About eight words to a line.)
Spinning fibrous materials, machinery for, F. A.  1. Sterry	Engravings may head advertisements at the same rate per line, by measurement, as the letter press. Adver-
Spinningrings in their rails, securing, Strange &	tisements must be received at publication office as early as Thursday morning to appear in next issue.
Taber	
Spring seat, J. M. Davis	: Cheap Engines, Boilers, Pipe, For Sale at a Bargain, to close out estate before 1st January.
Square, tailor's, W. H. Goldsberry 247.339	10,000 ft. 2 tnch pipe, 180 weld, 1,000 lb. pressure, \$0.12 10,000 ft. 34 inch pipe, steam pipe
Steam boiler front, D. Sullivan 247,226	10,000 ft. 3% inch pipe, lap weld, 500 lb, pressure 0 20
Steam draught regulator, A. G. & B. F. Polhemus 247.404	2000 ft. 18 inch pipe
Steam draught regulator, A. G. & B. F. Polhemus 247.404 Stockings, manufacture of, W. Est/	2.000 ft. ½ inch pipe. 6 02 Locomotive Boiler, 50 horse, 109 tubes. 375 03 25 Mounted Portable Engines on Boilers 6 to 20 H.
Steam draught regulator, A. G. & B. F. Polhemus 247,404 Stockings, manufacture of, W. Est/	50 Stationary Engines, 3 to 11 inch cylinders.
Steam draught regulator, A. G. & B. F. Polhemus 247.404 Stockings, manufacture of, W. Est/	50 Stationary Engines. 3/4 to 11 inch cylinders. 2,000 ft. 5/6 wire rope, galvanized
Steam draught regulator, A. G. & B. F. Polhemus 247,404         Stockings, manufacture of, W. Est/	50 Stationary Engines, 3½ to 11 inch cylinders. 2,000 ft. 5% wire rope, galvanized
Steam draught regulator, A. G. & B. F. Polhemus 247.404 Stockings, manufacture of, W. Est/	50 Stationary Engines. 3 4 to 11 inch cylinders. 2,000 ft. 56 wire rope, galvanized
Steam draught regulator, A. G. & B. F. Polhemus 247,404         Stockings, manufacture of, W. Est/	50 Stationary Engines. 3.4 to 11 inch cylinders. 2,000 ft. 36 were rope, galvanized
Steam draught regulator, A. G. & B. F. Polhemus 247.404   Stockings, manufacture of, W. Est/	50 Stationary Engines. 3% to 11 inch cylinders. 2,000 ft. 3g wher rope, galvanized
Steam draught regulator, A. G. & B. F. Polhemus 247,404   Stockings, manufacture of, W. Est/	50 Stationary Engines. 3% to 11 inch cylinders. 2,000 ft. 3g wher rope, galvanized
Steam draught regulator, A. G. & B. F. Polhemus 247,404   Stockings, manufacture of, W. Est	50 Stationary Engines. 3/4 to II inch cylinders. 2,000 ft. 9g whe rope, galvanized.  All refitted. The best lot of Machinery for sale in the United States to-day.  LOGAN MACHINE WORKS, Oil City, Pa.  TO E  We have firm of Pi GULD AN SOLOR STORM STORM SOLOR STORM SOLOR S
Steam draught regulator, A. G. & B. F. Polhemus 247,404   Stockings, manufacture of, W. Est/	50 Stationary Engines. 3.4 to 11 inch cylinders. 2,000 ft. 9g wire rope, galvanized.  All refitted. The best lot of Machinery for sale in the United States to-day.  LOGAN MACHINE WORKS, Oil City, Pa.  TO E  We have firm of Proceedings of the Collection of Collection States along the Collection States are the Collection of Collection States along the Collection States and Collection States along the Collection States along the Collection States and Collection States are collected as a collection of Collection States and Collection States are collected as a collection of Collection States and Collection States are collected as a collection of Collection States and Collection States and Collection States are collected as a collection of Collection States and Collection States are collected as a collection of Collection States and Collection States are collected as a collection of Collection States are collected as a collection of Collection States are collected as a collection of Collection States and Collection States are collected as a collection of Collection States are col
Steam draught regulator, A. G. & B. F. Polhemus 247,402     Stockings, manufacture of, W. Est/	50 Stationary Engines. 3% to 11 inch cylinders. 2,000 ft. 36 where rope, galvanized
Steam draught regulator, A. G. & B. F. Polhemus 247,404   Stockings, manufacture of, W. Est/	50 Stationary Engines. 3% to 11 inch cylinders. 2,000 ft. 36 where rope, galvanized
Steam draught regulator, A. G. & B. F. Polhemus 247,404 Stockings, manufacture of, W. Est/	50 Stationary Engines. 3% to 11 inch cylinders. 2,000 ft. 9g where rope, galvanized.  All refitted. The bestlot of Machinery for sale in the United States to-dal.  LOGAN MACHINE WORKS, Oil City, Pa.  TO E We have firm of Proceedings of the College Stock a WATCH Color. To but as a Watch Color. To
Steam draught regulator, A. G. & B. F. Polhemus 247,404     Stockings, manufacture of, W. Est/	50 Stationary Engines. 3% to 11 inch cylinders. 2,000 ft. 36 where rope, galvanized
Steam draught regulator, A. G. & B. F. Polhemus 247,404   Stockings, manufacture of, W. Est/	50 Stationary Engines. 3% to 11 inch cylinders. 2,000 ft. 36 where rope, galvanized
Steam draught regulator, A. G. & B. F. Polhemus 247,404   Stockings, manufacture of, W. Est/	50 Stationary Engines. 3% to 11 inch cylinders. 2,000 ft. 9g where rope, galvanized
Steam draught regulator, A. G. & B. F. Polhemus 247,404     Stockings, manufacture of, W. Est/	50 Stationary Engines. 3% to 11 inch cylinders. 2,000 ft. 9g where rope, galvanized
Steam draught regulator, A. G. & B. F. Polhemus 247,404 Stockings, manufacture of, W. Est/	50 Stationary Engines. 3% to 11 inch cylinders. 2,000 ft. 9g where rope, galvanized. All refitted. The bestlot of Machinery for sale in the United States to-dal. LOGAN MACHINE WORKS, Oil City, Pa.  TO E We have firm of Proceedings of the Collowing Upon Solida Nasa alway ATC. All They are color. They a
Steam draught regulator, A. G. & B. F. Polhemus 247,404     Stockings, manufacture of, W. Est	50 Stationary Engines. 3% to 11 inch cylinders. 2,000 ft. 9g where rope, galvanized. All refitted. The bestlot of Machinery for sale in the United States to-dal. LOGAN MACHINE WORKS, Oil City, Pa.  TO E We have firm of Proceedings of the Collowing Upon Solida Nasa alway ATC. All They are color. They a
Steam draught regulator, A. G. & B. F. Polhemus 247,404 Stockings, manufacture of, W. Est/	50 Stationary Engines. 3% to 11 inch cylinders. 2,000 ft. 9g where rope, garvanized.  All refitted. The bestlot of Machinery for sale in the United States to-dal.  LOGAN MACHINE WORKS, Oil City, Pa.  TO E We have firm of Proc. 10 oil
Steam draught regulator, A. G. & B. F. Polhemus 247,404 Stockings, manufacture of, W. Est	50 Stationary Engines. 3/4 to II inch cylinders. 2,000 ft. 9g wer rope, galvanized.  All refitted. The bestlot of Machinery for sale in the United States to-day.  LOGAN MACHINE WORKS, Oil City, Pa.  TO E  We have firm of P  GULD A'S  Work To Collowing  Solia N  They as  They and Find  Watch, AZINE, and Find  Walling  Remin of P  Walling
Steam draught regulator, A. G. & B. F. Polhemus 247,405 Stockings, manufacture of, W. Est/	50 Stationary Engines. 3 to 11 inch cylinders. 2,000 ft. 9g where rope, galvanized. All refitted. The best lot of Machinery for sale in the United States to-day.  LOGAN MACHINE WORKS, Oil City, Pa.  TO E  We have firm of P  GULD AN  FREE  Colleving  Soil a V  Logan FREE  FREE  60  FREE  Oncide vin  Logan FREE  FREE  Oncide vin  Logan FREE  Oncide vin  Soil a V  Valent  All Valent  All Valent  All Valent  This was alway  This was alway  Valent  This was alway  This was alway
Steam draught regulator, A. G. & B. F. Polhemus 247,404     Stockings, manufacture of, W. Est/	50 Stationary Engines. 3% to 11 inch cylinders. 2,000 ft. 9g where rope, galvanized.  All refitted. The bestlot of Machinery for sale in the United States to-dal.  LOGAN MACHINE WORKS, Oil City, Pa.  TO E We have firm of Proc. 10 oil
Steam draught regulator, A. G. & B. F. Polhemus 247,404 Stockings, manufacture of, W. Est/	50 Stationary Engines. 3 to 11 inch cylinders. 2,000 ft. 9g where rope, galvanized. All refitted. The best lot of Machinery for sale in the United States to-day.  LOGAN MACHINE WORKS, Oil City, Pa.  TO E  We have firm of P  GULD AN  FREE  Colleving  Soil a V  Logan FREE  FREE  60  FREE  Oncide vin  Logan FREE  FREE  Oncide vin  Logan FREE  Oncide vin  Soil a V  Valent  All Valent  All Valent  All Valent  This was alway  This was alway  Valent  This was alway  This was alway
Steam draught regulator, A. G. & B. F. Polhemus 247,404 Stockings, manufacture of, W. Est/	50 Stationary Engines. 3% to 11 inch cylinders. 2000 ft. 9g where rope, galvanized.  All refitted. The bestlot of Machinery for sale in the United States to-dal.  LOGAN MACHINE WORKS, Oil City, Pa.  TO E We have firm of Proceedings of the Color of Stock a WATC.  Social N has alway color.  They are color.  They
Steam draught regulator, A. G. & B. F. Polhemus 247,405 Stone, tile, and marble, artificial. J. W. McKnight 247,262 Stopper. See Man hole and hand hole stopper. Stove, L. F. Betta	50 Stationary Engines. 3/4 to 11 inch cylinders. 2,000 ft. 9g where rope, galvanized.  All refitted. The best lot of Machinery for sale in the United States to-dal.  LOGAN MACHINE WORKS, Oil City, Pa.  TO E We have firm of Program
Steam draught regulator, A. G. & B. F. Polhemus 247,405	50 Stationary Engines. 3/4 to 11 inch cylinders. 2,000 ft. 9g where rope, galvanized.  All refitted. The best lot of Machinery for sale in the United States to-dal.  LOGAN MACHINE WORKS, Oil City, Pa.  TO E We have firm of Program
Steam draught regulator, A. G. & B. F. Polhemus 247,405 Stone, tile, and marble, artificial. J. W. McKnight 247,262 Stopper. See Man hole and hand hole stopper. Stove, L. F. Betta	50 Stationary Engines. 3/4 to 11 inch cylinders. 2,000 ft. 9g where rope, galvanized.  All refitted. The bestlot of Machinery for sale in the United States to-dal.  LOGAN MACHINE WORKS, Oil City, Pa.  TO E We have firm of Program of the States to dal.  LOGAN MACHINE WORKS, Oil City, Pa.  TO E We have firm of Program of the States alway They as alway They as alway They as alway and Fixly and Fi
Steam draught regulator, A. G. & B. F. Polhemus 247,349   Stockings, manufacture of, W. Est.	50 Stationary Engines. 3/4 to 11 inch cylinders. 2,000 ft. 9g where rope, galvanized.  All refitted. The bestlot of Machinery for sale in the United States to-dal.  LOGAN MACHINE WORKS, Oil City, Pa.  TO E We have firm of Program of the States to dal.  LOGAN MACHINE WORKS, Oil City, Pa.  TO E We have firm of Program of the States alway They as alway They as alway They as alway and Fixly and Fi
Steam draught regulator, A. G. & B. F. Polhemus 247,349	50 Stationary Engines. 3/4 to 11 inch cylinders. 2,000 ft. 9g wher rope, galvanized.  All refitted. The bestlot of Machinery for sale in the United States to-dal.  LOGAN MACHINE WORKS, Oil City, Pa.  TO E We have firm of Program of the Oil City, Pa.  TO E We have firm of Program of the Oil City, Pa.  To E We have firm of Program of the Oil City, Pa.  They are always and First watch.  Azine, and First Walth Walth.  Walth Wa
Steam draught regulator, A. G. & B. F. Polhemus 247,349	50 Stationary Engines. 3/4 to 11 inch cylinders. 2,000 ft. 9g where rope, galvanized.  All refitted. The bestlot of Machinery for sale in the United States to-dal.  LOGAN MACHINE WORKS, Oil City, Pa.  TO E We have firm of Program of the States to dal.  LOGAN MACHINE WORKS, Oil City, Pa.  TO E We have firm of Program of the States alway They as alway They as alway They as alway and Fixly and Fi
Steam draught regulator, A. G. & B. F. Polhemus 247,349 Stockings, manufacture of, W. Est/	Solutionary Engines. 3% to 11 inch cylinders.  2,000 ft. 5g were rope, galvanized.  All refitted. The best lot of Machinery for sale in the United States to-dal.  LOGAN MACHINE WORKS, Oil City, Pa.  TO E We have firm of P GULD AN Color. T But as a law They as all the Worth at the Worth at Watch.  Watc
Steam draught regulator, A. G. & B. F. Polhemus 247,349 Stockings, manufacture of, W. Est	50 Stationary Engines. 3% to 11 inch cylinders. 2,000 ft. 9g where rope, garvanized
Steam draught regulator, A. G. & B. F. Polhemus 247,302	50 Stationary Engines. 3% to 11 inch cylinders. 2,000 ft. 9g where rope, galvanized.  All refitted. The bestlot of Machinery for sale in the United States to-dal.  LOGAN MACHINE WORKS, Oil City, Pa.  TO E We have firm of Proceedings of the Collowing Color of Color
Steam draught regulator, A. G. & B. F. Polhemus 247,302	50 Stationary Engines. 3% to 11 inch cylinders. 2,000 ft. 9g where rope, galvanized.  All refitted. The bestlot of Machinery for sale in the United States to-dal.  LOGAN MACHINE WORKS, Oil City, Pa.  TO E We have firm of Program of the States to-dal.  LOGAN MACHINE WORKS, Oil City, Pa.  TO E We have firm of Program of the States to-dal.  Upon Thorax They and First Watch
Steam draught regulator, A. G. & B. F. Polhemus 247,362 Stone, tile, and marble, artificial. J. W. McKnight 247,262 Stopper. See Man hole and hand hole stopper. Stove, L. F. Betta	50 Stationary Engines. 3% to 11 inch cylinders. 2,000 ft. 9g where rope, galvanized.  All refitted. The bestlot of Machinery for sale in the United States to-dal.  LOGAN MACHINE WORKS, Oil City, Pa.  TO E We have firm of Program of the States to-dal.  LOGAN MACHINE WORKS, Oil City, Pa.  TO E We have firm of Program of the States to-dal.  Upon Thorax They and First Watch
Steam draught regulator, A. G. & B. F. Polhemus 247,302	50 Stationary Engines. 3/4 to 11 inch cylinders. 2,000 ft. 9g where rope, galvanized.  All refitted. The bestlot of Machinery for sale in the United States to-dal.  LOGAN MACHINE WORKS, Oil City, Pa.  TO E We have firm of Pr GULD AN LOGAN MACHINE WORKS, Oil City, Pa.  TO E We have firm of Pr GULD AN has alwn they as alwn they as alwn they as alwn they and Finy Winding to Be of the Walburg Watch Watch Walburg Watch Watch Walburg Watch Watch Walburg Watch Wa
Steam draught regulator, A. G. & B. F. Polhemus         247,302           Stockings, manufacture of, W. Est/	Stationary Engines. 3/4 to 11 inch cylinders. 2,000 ft. 9g where rope, galvanized.  All refitted. The bestlot of Machinery for sale in the United States to-dal.  LOGAN MACHINE WORKS, Oil City, Pa.  TO E We have firm of Pr GULD AN LOGAN MACHINE WORKS, Oil City, Pa.  TO E We have firm of Pr GULD AN LOGAN MACHINE WORKS, Oil City, Pa.  To E We have firm of Pr GULD AN LOGAN MACHINE WORKS, Oil City, Pa.  To E We have firm of Pr GULD AN LOGAN MACHINE WORKS, Oil City, Pa.  Thus a salva They as a salva They as a salva They as a salva Watch Watch Walbu Be send Winding Watch Walbu Be send In the Oil NUTSTERS AND SHRUBS in the old Nurseries at Flushing, L. I., of R. B. PARSONS & CO., Is now in large quantity and excelent condition, and heavy Discounts are made from the oil datalogue Prices of very many kinds. For catalogues, address A. B. CRANE, Exr., Box W. Flushing, N. Y.  ATTENTION ALL A GENUINE IMPORTED BREECH-LOADING THE RANGER.  This is an UNIBSHI ATTENTION ALL A GENUINE IMPORTED BREECH-LOADING THE RANGER.  This is an UNIBSHI In the Oil Normal Company The Shall of Compa
Steam draught regulator. A. G. & B. F. Polhemus   247,404	50 Stationary Engines. 3/4 to 11 inch cylinders. 2,000 ft. 9g where rope, galvanized.  All refitted. The bestlot of Machinery for sale in the United States to-dal.  LOGAN MACHINE WORKS, Oil City, Pa.  TO E We have firm of Pr GULD AN LOGAN MACHINE WORKS, Oil City, Pa.  TO E We have firm of Pr GULD AN LOGAN MACHINE WORKS, Oil City, Pa.  To E We have firm of Pr GULD AN LOGAN MACHINE WORKS, Oil City, Pa.  To E We have firm of Pr GULD AN LOGAN MACHINE WORKS, Oil City, Pa.  Thus as a server of the sale was a sale was a server of the sale was a sal
Steam draught regulator. A. G. & B. F. Polhemus 247,404         247,325           Stone, tile, and marble, artificial. J. W. McKnight 247,225         247,325           Stoper. See Man hole and hand hole stopper.         247,354           Stove L. F. Betts	The extensive assortment of the best of NAMENTAL TREES AND SHRUBS in the old Nurseries at Flushing, L. I., of R. B. PARSONS & CO., is now in large quantity and excelent condition, and heavy Discounts are made from the old catalogue prices of very many kinds. For catalogues, address A. B. CRANE, Exx., Box EX. Flushing, N. Y.  ATTENTION ALL AGENUINE BREECH-LOADING THE RANGER.  This is just the guns for all policies to the cheech block finglished the breech hold finglished the forestock. The action is the breech hold finglished the forestock. The action is the breech hold finglished the forestock. The action is the breech hold finglished the forestock. The action is the breech hold finglished the forestock. The action is the breech hold finglished the forestock. The action is the breech hold finglished the forestock. The action is the breech hold finglished the forestock. The action is the breech hold finglished some the forestock. The action is the breech all the finglished the forestock. The action is the breech hold finglished some the forestock. The action is the breech all the sum of firm use; can be of add high only will exterminate, it is worth many times its cest. For due the only absolutely necessary features of SAFETY, RAPIOITY pairchase a high-priced breech-loader, or that have not sufficient barrels with the pure forty more ground that have not sufficient to the pure sum of the content of the conten
Steam draught regulator. A. G. & B. F. Polhemus 247,404 Stockings, manufacture of, W. Est/	The extensive assortment of the beat ORNAMENTAL TREES AND SHRUBS in the old Nurseries at Flushing, L. I., of R. B. PARSONS & CO., is now in large quantity and excelent condition, and heavy Discount sare made from the old catalogue Prices of very many kinds. For catalogues address A. B. CRANE, Exx., Box 683, Flushing, N. Y.  ATTENTION ALL AGENUINE IMPORTED BREECH-LOADING THE RANGER.  This is and shot lenet the forestock. The action is the breech block tippingto one side to insert the cartridage, one in the world. These gans are all 12 Bore, using either brass or THESE SHOT GUNS AT OU. 6 OWN FACTORY, and war This is quantity the gans of the prices of very many kinds. For catalogues address A. B. CRANE, Exx., Box 683, Flushing, N. Y.  ATTENTION ALL AGENUINE IMPORTED BREECH-LOADING THE RANGER.  This is an UNUSUA Guns and shot lenet the forestock. The action is the breech block tippingto one side to insert the cartridage, one in the world. These gans are all 12 Bore, using either brass or THESE SHOT GUNS AT OU. 6 OWN FACTORY, and war prices are the cartridage, one in the world. These gans are all 12 bore, using either brass or THESE SHOT GUNS AT OU. 6 OWN FACTORY, and war prices are the cartridage, one in the world. These gans are all 12 bore, using either brass or THESE SHOT GUNS AT OU. 6 OWN FACTORY, and war prices are the cartridage, one in the world. These gans are all 12 bore, using either brass or THESE SHOT GUNS AT OU. 6 OWN FACTORY, and war prices of the R. V. G. Berner of such good quality the two can be directly and the control of the time necessary to load the only absertments. His worth many times fix out. For duck the only absertments, this worth many times fix out. For duck the only absertments, this worth many times fix out. For duck the only absertments, this worth many times fix out. For duck the only absertments, this worth many times fix out. For duck the only absertments, this worth many times fix out. For duck the only absertments, this worth many times fix out. For duck the only absertments, th

Wind vehicle, J. W. Miller, Jr...... 247,266

			-
-		_	_
,	Windmill, G. A. Rowland	247,40	9
ſ	Window screen, J. Forhan	247,24	6
)	Window shade, H. B. S. Norman	247,39	4
	Wire twisting machine, E. E. & I. A. Kilmer	247.36	2
i	Wood, coloring and graining, K. Schneider	247,42	2
:	Wood preserving composition, E. R. Andrews	247,23	4
	Wood working tool handle. J. F. Green	247,18	8
}	Wrench. See Monkey wrench. Socket wrench.		
Ī	a a secre		

#### DESIGNS

DESIGNS.		
	Button, sleeve, J. W. Miller	12,482
	Carpet, H. Horan 12,476 to 12,479,	12,486
	Carpet, H. Hunt	12,487
	Carpet, W. L. Jacobs	12,488
ļ	Carpet, J. B. Neil	12.483
	Carpet, J. Pegel	12,489
	Statuary, group of, J. Rogers	12,484
	Watch case, H. Untermeyer	12,485
	Watch or clock stand. H. B. Buker	12,475

TRADE MARKS.	
Baking or yeast powder, City Baking Powder Com-	
pany	8.650
Canned goods and packed and preserved goods.	
such as fish, meat, fruit, and vegetables. J.	
Laidlaw	8.655
Cigars, R. Allones	8,644
Cigars, Bances y Suarez	
Cigars. R. Cuevas & Co	
Cologne water, J. M. Farina	
Corsets and underbodies, Boston Comfort Corset	
Company	8,648
Flint, sand, emery, and match papers and cloths,	
Wiggin & Stevens	8,662
Liniment. W. H. Patterson	8,658
Medicine, proprietary, H. C. Stewart	8,659
Sewing machine. wax thread, National Sewing Ma-	
chine Company	8,657
Sirup for affections of the throat and lungs, J. C.	
Ubert	
Starch, C. Morningstar & Co	
Tobacco, plug chewing, J. L. Jones	
Wood working machinery, certain, J. A. Fay & Co.	8,653
FOR THE WEEK ENDING SEPTEMBER 13	3.
Cannel mackerel, Pickert. De Butts & Co	8.639
Carpet ingrain, J. 11. Gay	
Medicated pad. Only Lung Pad Company	

### Advertisements.



WATER ELEVATOR, OR STEAM JET PUMP, WATER ELEVATOR, OR STEAM JET PUMP,
For Pumping Hot or Cold Water,
Lye, Caustic Soda, Grease, Tan
Liquor, High Wines, Slops, Acids
or Liquids, etc. This Pump is
effective, economical, durable,
low priced, and reliable. I inch,
\$5: pump raises 500 gal. per hour,
\$5: pump raises 500 gal. per hour,
\$5: pump 1,800 gal. per hour,
\$6: pump 1,800 gal. per hour,
\$6: pump 1,800 gal. per hour,
\$7: pump 1

# MINERAL

This Fireproof and indestructible material successfully prevents loss of heat by radiation, keeps frost from water pipes, deadens sound, checks spread of fire in walls.



A NEW BOOK.

HVDRAULIU, Steam, and Hand Power Lifting and Pressing Machinery. By F. Colyer, M.I.M.E. 73 plates, 8yo, Cloth, \$7.25, ELECTRIC LIGHT in its Practical Application. By Dr. Paget Higgs. Illustrated, 8vo, \$3.50.
ELECTICO-TELEGRAPHY. By F. S. Beechey.
126 pages, 36 illustrations, 20 cents.

Descriptive Catalogue free.

E. & F. N. Spon, 446 Broome St., N. Y.

GOLD, SILVER, and NICKEL PLATING.

A trade easily learned. Costs little to start, and pays well. The Electro-Plater's Guide, a complete manual, sent free for three stamps. Complete outdits from \$1. Outfits can be had on easy terms. All kinds of electrical apparatus on hand and experimental work made to order. Frederick Lowey, \$0 Eleventh St., Brooklyn, N.Y.

HAND BLOWERS and PORTABLE FORGES made by EMPIRE PORTABLE FORGE CO., Cohoes, N. Y., are the strongest and best. Send for circulars.



### To EVERY READER of this PAPER

We have just purchased the entire stock of Watches of the bankrupt from of Parker Hotcomb & Co., consisting of some 25,000 NICKEL.
GULD AND SILVER WATCHES, at much less than cost. Among the stock are 47,000 SOLID NICKEL STEM WINDING WATCHES, which we wish to dispose of at once, and make the following liberal offer.

Upon receipt of \$4,00 we will mail, post paid, one of these Solid Nickel Stem Winding Watches, the retail price of which has always been from \$7 to \$10 in this City and the state of the second of the se

extra we will send an Elegant Gold-Plated (curb-pattern) vestchain worth at retail \$2.50.

BEEMEMBER.—FOR FOUR DOLLARS we send the Stem Winding Watch, The Botsk-pold GUEST MAGAZINE One Year, and a Splend of Engraving of GUIT LATE PRESIDENT. This makes the Watch cost you amere trifle.

This offer could not be made were it not for the fact that we bought the Watches at one-half cost of manufacture.

This watch will sell readily for \$10. Order now. Money car be sent by Registerd letter for Money order at our risk.

Watches malled the day the order is received. 6,000 ACENTS WANTED. We refer to any New York Publishers
ADDRESS ALL ORDERS TO

E. C. RIDEOUT & CO., 10 Barclay Street, N. Y.

IMPORTANT.—This Advertisement WILL APPEAR but ONCE. If you will Get up a Club of Ten Subscribers to our Magazine and send us \$40.00, \$4.00 for each Subscriber, we will send you a WATCH, the Magazine One Year, and the Engraving OUTH LATEPRESIDENT, FREE for your trouble, and each person in the Gub will get the Watch, Magazine and Engraving we offer

The extensive assortment of the best
ORNAMENTAL TREES AND SHRUBS R. B. PARSONS & CO., is now in large quantity and excellent condition, and heavy Discounts are made from the old catalogue Prices of very many kinds. For catalogues, address A. B. CRANE, Exr., Box 603. Flushing, N. Y.



New and Valuable Oiler for Loose Pulleys. Its use on Loose Pulleys will prove it to be efficient, keeping the pulley oiled from three to four weeks with olled from three to four weeks with lication of the one filling. Price from 25c. to 75c. amine Improvement of the cathon. Send for catalogue and price cation. Send for catalogue and price for Inventors.

VAN DUZEN & TIFT, Cincinnati, o.

#### ATTENTION ALL! A VERITABLE BARGAIN.

A GENUINE IMPORTED BREECH-LOADING SHOT GUN FOR \$5. THE RANCER.

A Breech-Loader for Everybedy.

This is an Unusual opportunity. The RANGER is in no sense a cheap made gun, or unsee or inaccurate. They cost to make over \$8 apiecs. Their history is manufacture by the hundred thousand over \$8 from a breect-loading Fee which their prises of larged. When the French government changed from the Snyder system to their present arm, a large quan ity of these rifescance into a shot gun manufacturer's hands, in Leice, Belgium, who altered them into snot guns and shot lened the forestock. The action is te famous "Snyder," swivel breech smilar to the phospix Riffe, the breech plock tipping to one side to insert the carridge, one of the STRONGEST, MOST CERTAIN, and SAFEST actions in the world. These guns are all Bore, using either brass or paper centre-fire shells. WE CHOKE BOREEVERY ONE OF THESE SHOT GUNSAT OU : OWN FACTORY, and war in every one a extra long ranged. Safe, accurate, and reliable gun. This is just the gun for farm use; can be loaded light enough for squirrels, and HEAVY ENOUGH FOR DUCK AND DEER. It can be fired five times in twenty seconds, at dis betier than a double muzzle loader in 1 any cases where a muzzle loader is almost useless, on account of the time necessary to load it. Where Gephers and Rabbits are a p st that the shot gun of the control of the second of the strength of the second of the

### CET THE BEST AND CHEAPEST. THADE & PERIN & MARK.

Silver Finish.

JAFAY & CO.

(Cincinnati, Ohio, U.S. A. Exclusive Agents and Importers for the United States, of the CELEBRATED

PERIN BAND SAW BLADES,
Warranted superfor to all others in quality, finish, uniformity of temper, and general durability. One Perin Saw only exthre ordinary saws.

THE BAKER BLOWER.

The revolving parts are all accurately Balanced.
Warranted Superior to any other.
WILBRAHAM BROS,

WILBRAHAM BROS, Nu. 2318 Frankford Avenue Philadelphia, Pa. SEND FOR OUR CATALOGUE. SA

733 Broadway, New York.

VIOLIN Big Bargains. 4-page Catalogue, all kinds of instruments, free. Lowest prices. G. H. W. Bates, Importer, Boston, Mass.

EFFECT OF PROLONGED STRESS upon the Strength and Elasticity of Pine Timber. A valuable paper by Prof. R. H. Thurston, of the Stevens Institute, giving the results of a series of experiments made at that institution, during the last few years to ascertain the effect of prolonged stress in modifying the primitive relation of stress and strain in good Southem yellow pine. Contained in SCIENTIFIC AMERICAN SUPPLEMENT, NO. 2977. Price 10 cents. To be had at this office and from all newsdealers.

WANTED TO PURCHASE.—Wanted, a good Engineer's Transit and Level. Must be enough for each. Address R. S., 206 East 50th Street, New York City.

CHEMIST.—A thorough chemist desires to make a new engagement. Sugar or glucose preferred.
W. W. MACFARLANE. Montvale, Mass.

MACHINISTS' HAMMERS

HARTFORD HAMMER CO., Hartford, Conn.

These goods stand unrivaled for style, quality, and finish. Every Hammer unconditionally warranted. Nail Hammers in great variety. Price lists free.

# FIRE BRICK THE ANDCLAY RETORTS ALL SHAPES BORGNER & O'BRIEN 23 11 ST. ABOVE RACE PHILADELPHIA

12c. "A Violet from Mother's Grave" & 49 other popular Songs. words and music entire, only 12c. PATTEN & Co., 47 Barclay St., N. Y.

CONSUMPTION: IS IT A CONTAGIous Disease? What can be done to Prevent its Ravages?
—A paper ty B. Gogshall, M.D., giving a brief and condensed summary of the most important testimony bearing on the subject of the above questions. The nature
and origin of the disease. Infection from diseased
meats; cooked meats; tuberculous milk. Contained in
SCIENTIFIC AMEURICAN SUPPLEMMENT, No. 497. Price
10 cents. To be had at this office and from all newsdealers.



Agent's wanted for Life of President Gardeld. A complete, faithful history from cradle to grave, by the eminent biogradelivery. An elegantly illustrated volume. Indorsed edition. Liberal terms. Agents take orders for from 20 to 50 copies daily. Outsells any other book ten to one. Agents never made money so fast. The book sells itself. Experience not necessary. Failure unknown. All make immense profits. Private terms free. GEORGE STINSON & CO., Portland, Maine.

THE MOVEMENTS OF PLANTS. BY Rev. George Henslow, M.A., F.L.S.—A very interesting supplement to the recent investigations of Darwin, showing how varied and extensive are the movements effected by the different organs of plants, and the advantages accruing to them by possessing such powers of motion. Illustrated with 23 figures, exhibiting the movements of different plant organs. Contained in SCIENTIFIC AMERICAN SUPPLEMENT, NO. 297. Price 10 cents. To be had at this office and from all newsdealers.

## SEND TO LONDON, BERRY & ORTON PHILA PA FOR THE BEST BAND SAW

MESSRS, MUNN & CO., in connection with the pub lication of the Scientific American continue to ex amine Improvements, and to act as Solicitors of Patents

In this line of business they have had thirty-five years' experience, and now have unequaled facilities for the preparation of Patent Drawings, Specifications, and the prosecution of Applications for Patents in the United States, Canada, and Foreign Countries. Messrs. Munn & Co. also attend to the preparation of Caveats, Copyrights for Books, Labels, Reissues, Assignments, and Reports on Infringements of Patents. All business intrusted to them is done with special care and promptness, on very reasonable terms.

A pamphlet sent free of charge, on application, con taining full information about Patents and how to procure them; directions concerning Labels, Copyrights, Designs, Patents, Appeals, Reissues, Infringements, Assignments, Rejected Cases, Hints on the Sale of Patents, etc.

We also send. free of charge, a Synopsis of Foreign Patent Laws, showing the cost and method of securing patents in all the principal countries of the world.

## MUNN & CO., Solicitors of Patents,

37 Park Row, New York. BRANCH OFFICE.—Corner of F and 7th Streets, Washington, D. C.