hanging bacon is provided by this invention, one which will hold the meat without mutilation and permit it to be sliced uniformly. It is preferably made of steel wire in two sections, one section having a loop, one side of which is free, and forms a pin capable of engaging with the meat, while the second section is capable of being joined to the first section to hold the meat between the

SHIRT.—Bennett Berenstein, New York City. A sleeve piece, according to this invention, extends beyond the armholes and forms the sleeves, extending also over the shoulder and down the back and front, being stitched adjacent to the armholes and at its lower front and rear edges, the central portion forming a bosom and reinforce for the back and shoulders of

WHISTLE DRUM.-Orville R. Noble, Granville, Mass. On the inside of the shell of a drum, according to this invention, a small casing is secured by an eyelet, thus forming an air passage to the inside of the casing, on an annular shoulder in which is secured a whistle. The whistle is so supported as not to be damaged or injured by a child, and the beating of the drum causes a whistling sound to be produced.

Note.-Copies of any of the above patents will be furnished by Munn & Co. for 10 cents each. Please send name of the patentee, title of invention, and date of this paper.

### SCIENTIFIC AMERICAN BUILDING EDITION

JULY, 1897.-(No. 141.)

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(7172) W. J. C. asks: Will von kindly inform writer how to plate a round globe outside the same as a looking glass? Have failed to find any receipt. A. You will have to coat your globe with silver on the inside. If you coat it on the outside, it will have a matte surface. The following are directions for silvering glass globes :

Nitrate of silver	1 (	oz.
Distilled water	8	**
Alcohol	8	**
Ammonia sufficient, or about	1	44
Grape sugar	2	66

Dissolve the nitrate of silver in the water, add amnonia in a quantity just sufficient to redissolve the precipitate formed at first, add the alcohol, allow it to rest fouror five hours and filter. The grape sugar is dis solved separately in 1 ounce of water, and added to the silver solution at the moment of using. The glass globes being perfectly cleaned, the solution is poured into them, and the globes are turned on all sides in front of a moderate fire, so that the liquid touches every part alike. The coating is done in a few minutes, when the excess of liquid is to be removed and the globe washed with distilled water first, and lastly with alcohol. The success of the operation depends in a great degree on the cleanness of the surface of the glass to be silvered; the slight est speck of dust or grease spot is sure to show. A good way to clean the globes would be to wash them with a warm solution of soda, then with dilute nitric acid, and lastly with alcohol, care being taken not touch with the fingers any part of the globes which is intended to be sil-

(7173) A. H. G. says: Will you kindly give me the recipe for making the composition that takes fire by merely putting a drop of water on it? What I have reference to is an article sold on the streets, that looks like strips of cardboard, and ali you have to do is to tear a piece off and wet it to obtain a light. Can it be made in a form that can be painted on, or cardboard or paper dipped into it? A. The substance you refer to is undoubtedly metallic sodium which is cut in thin strips. It flames violently on coming in contact with We do not consider its use safe. It could pro bably be used only in strips or chips.

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F. H. Daniels. Furnace grate, J. A. Busam Furnace grate, J. A. Busam Furnace lock bearer. P. Maddocks. Game apparatus, F. M. Archer. Game apparatus, W. R. Harrison. Game counter. F. E. Zerrahn. Gas engine, L. S. Brown. Gas engine, L. S. Brown. Gas engine, L. S. Brown. Gas generator, acetylene, J. F. Dougherty. Gate. See Farm gate. Tilting gate. Gate. W. H. Palmer. Gate. B. P. Stedman. Gearing for coupling shafts, friction, F. Singre Generator. See Lamp gas generator. Steam generator.	585,644 585,622 585,428 585,301 585,302 585,302 585,601 585,625 585,640 585,539 585,539 585,400
F H. Daniels. Furnace grate, J. A. Busam Furnace grate, J. A. Busam Furnace lock bearer. P. Maddocks. Game apparatus, F. M. Archer. Game apparatus, W. R. Harrison. Game counter. F. E. Zerrahn. Gas engine, L. S. Brown. Gas engine, L. S. Brown. Gas generator, acetylene, J. F. Dougherty. Gate. See Farm gate. Tilting gate. Gate, W. H. Palmer. Gate, B. P. Stedman. Gearing for coupling shafts, friction, F. Singre Generator. See Lamp gas generator. Steam generator. Glass vessels, machine for making, R. & R. Good, Jr. Globe or shade holding device, T. Walsh	585,644 585,622 585,428 585,312 585,312 585,302 585,602 585,625 585,400 585,539 585,400 585,539
F H. Daniels. Furnace grate, J. A. Busam Furnace grate, J. A. Busam Furnace lock bearer. P. Maddocks. Game apparatus, F. M. Archer. Game apparatus, W. R. Harrison. Game counter. F. E. Zerrahn. Gas engine, L. S. Brown. Gas engine, L. S. Brown. Gas generator, acetylene, J. F. Dougherty. Gate. See Farm gate. Tilting gate. Gate, W. H. Palmer. Gate, B. P. Stedman. Gearing for coupling shafts, friction, F. Singre Generator. See Lamp gas generator. Steam generator. Glass vessels, machine for making, R. & R. Good, Jr. Globe or shade holding device, T. Walsh	585,644 585,622 585,423 585,170 585,170 585,312 585,601 585,601 585,601 585,603 585,603 585,600 585,509 585,509 585,509 585,500 585,500 585,500 585,500 585,500 585,500 585,500 585,500 585,500 585,500 585,500 585,500 585,500
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F. H. Daniels. Furnace grate, J. A. Busam Furnace grate, J. A. Busam Furnace lock bearer, P. Maddocks. Game apparatus, F. M. Archer. Game apparatus, W. R. Harrison. Game counter, F. E. Zerrahn. Gas engine, L. S. Brown. Gas generator, acetylene, J. F. Dougherty. Gate, See Farm gate. Tilting gate. Gate, W. H. Palmer. Gate, B. P. Stedman Gearing for coupling shafts, friction, F. Singre Generator. See Lamp gas generator. Steam generator. Glass vessels, machine for making, R. & R. Good, Jr. Globe or shade holding device, T. Walsh. Glucose or sugar from starch, manufacture of, C. Pope. Gluing press, A. Dolge. Gold from ore, chlorination process of obtaining, J. J. Storer et al. Ground detector, E. W. Rice, Jr. Hackling machine, A. Marshall. Handle. See Detachable handle.	585,644 585,622 585,423 585,170 585,170 585,312 585,601 585,601 585,601 585,603 585,603 585,600 585,509 585,509 585,509 585,500 585,500 585,500 585,500 585,500 585,500 585,500 585,500 585,500 585,500 585,500 585,500 585,500
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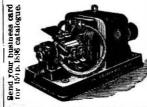
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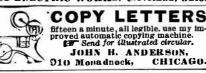


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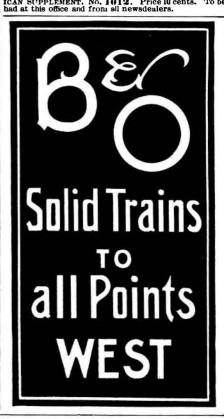
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