both arrangements work, and which will be the better? tested and know it to be a perfect cure A. The latter will have the least internal resistance, but will not be a very constant form. 5. Is there any alloy that expands when cooled, and contracts when heated? A. No: but a few of the metals or alloys, as those of antimony and bismuth, have the property of expanding considerably at the moment of solidification from fusion, owing to their tendency to crystalizc.

- (36) W. A., of Montreal, asks for the recipe for starch polish, or "concentrated starch," so-called? A. We do not know its exact composition, but think it it gets cold, remelt and add more glue. is simply starch with a little grape sugar and paraffin.
- of preserving belts. I was told by an engineer to paint present volume. them with printer's black ink. Please let me know if this will damage belts that are in motion daily? A. A very little pure lard oil or neat's foot oil will preserve belts and prevent them from cracking. Castor oil is also used, but too much is worse than none. Daubing with printing ink is not recommended.
- (38) R. B. G. says: I have a 12 x 24 inch engine, nearly new, runs 80 revolutions per minute with which I wish to drive 2 pair 42 inch and 1 pair 30 inch burrs. My boiler is 42 inch x 26 feet, with two 16 inch flues. Is this boiler capacity sufficient? Give me the best plan to construct the furnace to give good draught should be exposed to the flames? What should be the 'dies and knives, and how is it done? Which is the best size of an iron chimney, and how high? A. The boiler will be large enough in all probability. As to mode of setting, see p. 339, vol. 33.
- (39) C. M. asks how to make a bichromate of potash battery? A. The carbon battery usually consists of a glass jar having within it a cup of porous, unglazed porcelain. The annular space between the sides of the vessels is filled with water slightly acidulated with oil of vitriol, and contains a sheet of zinc shaped so as to conform to the curve of the inner cup, which it nearly surrounds. A stick or prism of gas carbon is placed in the porous cup, and surrounded with a fluid made by adding strong sulphuric acid to a saturated solution of potassium dichromate until the red chromic acid just begins to separate in flakes, and then just enough water to redissolve the precipitate. The proportions of the several ingredients in this mixture should be about as follows: To 10 ozs, of potassium dichromate in a gallon of water, add 1 pint of strong oil of

Please give me a recipe for polishing shells? A. See answer to H. C., p. 43, vol. 37.

- (40) W. M. asks how to magnetize iron? A. Soft iron will not retain magnetism so as to become permanently magnetic. When a box of iron is surrounded by a coil of insulated wire (wrapped tight about it) through which a battery current is passing, the iron becomes a strong magnet. As soon, however, as the electric current is interrupted, the iron loses its magnetism and resumes its passive condition. You should consult some elementary treatise on electricity and magnetism or natural philosophy (physics). The best of these works may be consulted at the Astor Library.
- (41) W. M. U., of Cork, Ireland, asks: 1. How is brown bronze on gas chandeliers and fittings done? A. Vinegar half a pint, copper sulpnate 3 ozs.; hydrochloric acid 3 ozs., ammonium chloride 2 ozs., alum 1/2 oz. Dissolve the salts, reduced to a fine pow der, in the vinegar and acids with the aid of heat, and apply to the brass warm. 2. Make a paste of 2 ozs. each of verdigris and vermilion, 5 ozs. each of alumand sal ammoniac (all in fine powder), and vinegar. Heat the paste, and spread it on the cleaned work previously warmed. The addition of a little sulphate of copper inclines the color to chestnut brown, and borax to yellowish brown, 3. Use the following bronz? powder with an oil size: Copper filings 100 parts, carbonate of soda 60 parts; fuse, cool, powder, add 15 parts of copper filings, mix, heat to whiteness for 20 minutes, cool, powder, wash and dry. 2. How is black bronze done? A. plenty of water, and place in the following mixture until it turns black: Hydrochloric acid 12 lbs., sulphate of iron 1lb., pure white arsenic (arsenious acid) 1 lb. It is sawdust, and polished with black lead, and lacquered with a green lacquer made as follows: 1 gallon of wood naphtha (methylic spirit), 5 ozs. shellac, 4 ozs. gum sandarac, 1 oz. gum elimi; place in a tin flask and expose to a half gallon of spirit, and treat as before. Finally dissolve in the liquor 6 ozs. of turmeric and 1 of gum gamboge. 3. Can brass before pouring be colored by placing is given. anything on it so as to give it when turned in the lathe a rich color like straw? A. If we understand you, no. Yellow brass contains a larger proportion of zinc.
- (42) I. H. P. asks: What will remove the stain of sugar of lead from lime? A. Try a little soda Personal," which is specially set apart for that purwater (carbonic acid water). If this does not answer use oil of vitriol diluted with about 50 parts of water.

Should imitation black walnu paper wainscot be sized this way be expeditiously obtained. before being varnished? If so, what is the preparation for sizing, and what is the best varnish? A. Yes; use a thin glue water, and when perfectly dried varnish with copal.

What can be done to cleanse for domestic use iron vessels in which sulphur has been melted? The sulphurseems to have combined with the iron by incrustation. A. Boil in the vessels for some time strong aqueous solutions of caustic soda or potassa; then wash with plenty of clean water and scour with sand.

- (43) S. S. T. asks how to make the lightest gas possible from coal, such as would be most suitable to inflate a balloon? A. Use a hard coal and work the charge at a high temperature and longer than usual. The gas should be well washed and purified. Peat gives a lightergas than coal.
- (44) M. M. says, in answer to C. R., if he will so arrange his flue that the smoke from his boiler will pass vertically downward into a small chamber of 3 or 4 times the sectional area of his smoke flue, and from that chamber pass into the smoke flue, very few sparks will ever rise. If he will keep the floor of this receiv-

described on p. 221, Science Record for 1876. Will can possibly pass up the smokestack. I have seen this

Scientific American.

- (45) B. R. T. asks how to make printer's rollers, and moulds for the same. A. The roller mould may be a brass, zinc, or tin tube of the size required. Oil it on the inside before pouring the composition into it. This is to prevent sticking. For the roller composition to use in summer take good glue, prepare as for gluing wood work, and add about twice the quantity of good molasses, and boil together for a short t me, say an hour or two, then pour in the mould. If too soft when
- (46) J. E. asks for a recipe to make black (37) L. W. H. says: I want some method ink, and is referred to reply to T. C. (54) p. 76, No. 5,
 - (47) J. A. H. is informed that we know nothing of the opportunities for his business in Japan. We doubt if employment could be secured there that would pay better than here.
 - (48) W. J. asks: Have any detailed drawings of the Brayton gas engine been published? A. In No. 20, vol. 34, and No. 2, vol. 36 of the Scientific AMERICAN, and in Nos. 24 and 58 of the Scientific AMERICAN SUPPLEMENT, you will find cuts and descriptions that will give you the information.
- (49) H. K. asks: What is the best solution and to economize fuel How much of the boiler shell for tempering coalpicks? What is used for tempering method to straighten a horse's hoof? A. Vol. 31 of the SCIENTIFIC AMERICAN contains about a dozen good articles on hardening and tempering to which reference is made. No two experts in hardening and tempering use precisely the same solutions or manipulate the tools to be tempered in the same manner. Each one would probably claim their process as the best. Conditions are such, as regards quality of steel, hardening, etc., that it is impossible to give the best solutions or the best methods. In reply to the last question our correspondent had better consult a farrier.

MINERALS, ETC.—Specimens have been received from the following correspondents, and examined, with the result stated:

S. M. S.—The scale consists principally of carbonate and sulphate of lime, some carbonate of iron, and a little alumina and silica. There is nothing in it of a poisonous nature. The mineral matter forming the scale is most readily precipitated from the water by boiling. Allow the water to settle and siphon off from the sediment.-W. P. C .- It is flint.-M. C .- It is an earth or soil containing a large quantity of carbonaceousmatter apparently of animal origin. Earth of a similar nature is often found in the caves of guano districts. The percentage of ammoniacal salts is very small, but it cor.tains enough of the phosphates to be of some value as a fertilizer.—T. W.—It is not plumbago, but a shale of little value. It may pay you to look deeper .- B. F. -Nos. 1 and 4 are not trap rock, but a limestone containing garnets and idocrase - a compound of lime, iron, alumina, and silica. Nos. 2 and 3 contain copper.-H. W. K.-We cannot find your box of minerals

COMMUNICATIONS RECEIVED.

The Editor of the Scientific American acknowledges. with much pleasure, the receipt of original papers and

entributions upon the following subjects: On Darwin and Others on Creation. By Dr. H. D. T. On Determining the Proportions of Gear Teeth. By

On Hydraulic Cements, Stone, etc. By On Geometrical Problem and Instrument. By W. G. B.

Also inquiries and answers from the following: D. L. H.—H. W. K.—J. S. A. B.—G. R. C.—W. C. L.

HINTS TO CORRESPONDENTS.

We renew our request that correspondents, in referring to former answers or articles, will be kind enough to Dip the work bright in nitric acid, quickly rinse with name the date of the paper and the page, or the number of the question.

Correspondents whose inquiries fail to appear should repeat them. If not then published, they may conclude then taken out, rinsed with clean water, and dried in that, for good reasons, the Editor declines them. The address of the writer should always be given.

Inquiries relating to patents, or to the patentability of inventions, assignments, etc., will not be published here. All such questions, when initials only are given, a gentle heat for a day or two. Then strain off, add are thrown into the waste basket, as it would fill half of our paper to print them all; but we generally take pleas ure in answering briefly by mail, if the writer's address

> Hundreds of inquiries analogous to the following are are sent: "Who publishes books on steam boilers? Who publishes a book on construction and running of steam engines?" All such personal inquiries are printed, as will be observed, in the column of "Business and pose, subject to the charge mentioned at the head of that column. Almost any desired information can in

OFFICIAL

INDEX OF INVENTIONS

FOR WHICH

Letters Patent of the United States were Granted in the Week Ending

July 3, 1877. AND EACH BEARING THAT DATE.

[Those marked (r) are reissued patents.]

A complete copy of any patent in the annexed list, including both the specifications and drawings, will be furnished from this office for one dollar. In ordering, please state the number and date of the patent desired, and remit to Munn & Co., 37 Park Row, New York city.

will ever rise. If he will keep the floor of this receiving chamberflooded with water, neither sparks nor dirt Animal stocks, Bowman & Irving 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,672 Lamps, L. W. P. Gray 192,647 remitting on 192,6

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١	Axle box covers, G. S. Winslow	192,667	Lightning rod, C. H. Smith192,628,	192,718
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ļ	Baling cotton press, P. C. Ingersoll		Lock, F. J. Kimball	
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	Bed bottom, S. H. Reeves	192,790	Loom shuttles, J. Hamilton	192,692
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	Bee hive, D. Thompson Binder, W. H. Russell	192,791	Millstones, Moir & Ellis	192,627
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Į	Brick machine, T. James Brush machine, J. L. Whiting	192802	Pianos, music retainer, J. P. Molitor	192,669
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:	Cartridge, D. E. Williams (r)	7,783	Rock-boring machine, H. N. Penrice	192,788
	Cartridge, J. H. Bullard	192,639	Sash balance, W. Cashner	192,614
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ı	Coal breakers, S. Broadbent	192,734	Saw mills, H. Gawley	192,576
i	Cock and valve, J. Powell	192,658	Sawing machine, F. Millward	192,810
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:	Corn planter, F. A. & J. W. Hartnagel Corn planter, C. Woods	192,694	Sewing machine, Corbett & Hadlow	192,568
:	Corset, Bale & Goldberg	192,729	Sheet metalvessel handle, F G. Niedringhaus et al	192,784
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Ė	Feathers, C. W. Nichols	192,594	Stove, grate, J. H. Mearns	192,777
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	Fence post, S. Miller		Tobacco safe, L. C. Parker	
1	Filter, J. Foley Fire arm, G. F. Evans	192,750	Tonsorial compound, W. Clark	192,565
. :	Fire escape, W. Guthrie	192,758	Turbine wheel, A. R. Guilder	192,691
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!	Fly trap, J. T. Guthrie	192,578	Ventilator, A. Barnum	192,557
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,	Grain, band, F. Peteler Grain binder, Gammon, Dixon, & Steward	192,789	Wash basin, C. E. Yvelin	192,807
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ľ	Grain elevator, J. A. WoodwardGrate bar, A. O. Denio	192,611 192,744	Water wheel, J. J. Bourgeois	7,776
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٠.	Hoe, M. Johnson	192,764	Wood boring machine, J. D. Shoots	192,577
1	Hog elevator, G. Wheeler	192,723	Yarn machine, J. Cumnock	192,571
	Horse power, T. E. Adams	192,665	DESIGNS PATENTED,	ladol
	Horseshoe nail machine, Wheeler, Loring, & Coy Ice cream freezer, O. Dexter, Jr	192,684	10,079.—PENDENT GAS FIXTURES.—C. Baker, Phi phia, Pa.	
! :	Ice cutter, M. H. Winebrener	192,609	10,080 and 10,081.—GASALIERS.—R. C. Baker, Phiphia, Pa.	
1	Inking, A. E. Hix	192,624	10,082.—CASSIMERES.—F. S. Bosworth, Providence, 10,083.—EMBROIDERY PATTERN.—E. Crisand, New	R.I. v Ha-
13	Iron ware, F. G. & W. F. Niedringhaus (r)	7,779	ven, Conn. 10,084.—HEATING STOVES.—J. A. Lawson, Troy, N.	_
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. •	Jar holder, T. & H. Hale Knapsack fire engine, J. W. Douglas (r)	7.774	cisco, Cal. 10,086:—MATCH SAFES.—W. H. Matthai, Baltimore	, Md.
li	Knife, F. Schwatka	192.704	10,087.—CASSIMERES.—W. B. Weeden, Providence, 10,088.—MONUMENT.—A. M. Buchanan, Moberly, M	lo.
i٦	Knob metal. Lewis & Lampson	192,586	10,089.—CASSIMERES.—O. F. Chase, Thompson, Con 10,090.—OIL STOVES.—W. Hailes and J. Gray, Al	nn.
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!	Lumber, W. E. Brock	192,6
ĺ	Millstones, Moir & Ellis	192,62
:	Nut lock, Collins & Grant Nut lock, J. W. Eaton Nut lock, J. Hollingsworth	192,63 192,63
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:	Packing, J. R. Cross (r). Packing, A. J. Stevens (r).	7,77
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!	Pencil sharpener, E. W. Frost	192.75
i	Picker teeth, R. Aldrich Piston, L. Richner	192,66
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	Pump reel, D. C. Brawley	192,5€
	Pump rod, Gifford & Abell. Pump valve, N. S. Bean.	192,68
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•	Refining liquors, G. Clark	192.63
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	Sheep wash, W. Little. Sheet metalvessel handle, F. G. Niedringhaus et al. Shirt, M. Simon Show case, W. Shockley. Skate, O. Edwards Skiving machine, W. S. Fitzgerald. Soldering tool, L. Cutting. Spoke socket, J. P. Parkhurst. Stable scuttle, W. M. Watkins Steam and water cock, Guild & Lewis Steam radiator, R. S. Gillespie. Stopcock, etc., J. G. Murdock Stopcock, R. Lapham Stove, F. A. & A. B. Lyman.	192,58 192,78 192,79 192,71 192,64 192,64 192,74 192,59 192,72 192,65 192,58 192,58
	Sheep wash, W. Little. Sheet metalvessel handle, F. G. Niedringhaus et al. Shirt, M. Simon. Show case, W. Shockley. Skate, O. Edwards. Skiving machine, W. S. Fitzgerald. Soldering tool, L. Cutting Spoke socket, J. P. Parkhurst. Stable scuttle, W. M. Watkins Steam and water cock, Guild & Lewis. Steam radiator, R. S. Gillespie. Stopcock, etc., J. G. Murdock Stopcock, etc., J. G. Murdock Stopcock, R. Lapham. Stove, F. A. & A. B. Lyman. Stove, E. L. Matteson Stove, J. D. Murray	192,58 192,79 192,71 192,64 192,64 192,74 192,59 192,72 192,65 192,75 192,58 192,58 192,58 192,77 192,78
	Sheep wash, W. Little. Sheet metalvessel handle, F. G. Niedringhaus et al. Shirt, M. Simon. Show case, W. Shockley. Skate, O. Edwards. Skiving machine, W. S. Fitzgerald. Soldering tool, L. Cutting. Spoke socket, J. P. Parkhurst. Stable scuttle, W. M. Watkins Steam and water cock, Guild & Lewis. Steam radiator, R. S. Gillespie. Stopcock, etc., J. G. Murdock Stopcock, etc., J. G. Murdock Stopcock, F. A. & A. B. Lyman. Stove, E. L. Matteson. Stove, J. D. Murray. Stoves, O. F. Stedman. Stove, Grate, J. H. Mearns.	192,58 192,78 192,79 192,64 192,64 192,59 192,72 192,62 192,75 192,65 192,58 192,58 192,77 192,62 192,77
	Sheep wash, W. Little. Sheet metalvessel handle, F. G. Niedringhaus et al. Shirt, M. Simon Show case, W. Shockley. Skate, O. Edwards. Skiving machine, W. S. Fitzgerald. Soldering tool, L. Cutting. Spoke socket, J. P. Parkhurst. Stable scuttle, W. M. Watkins Steam and water cock, Guild & Lewis Steam radiator, R. S. Gillespie. Stopcock, etc., J. G. Murdock Stopcock, R. Lapham Stove, F. A. & A. B. Lyman Stove, J. D. Murray. Stoves, J. D. Murray. Stoves, O. F. Stedman. Stove, grate, J. H. Mearns Telegraph signal, L. B. Firman Ticket machine, H. Van Geasen.	192,58 192,78 192,79 192,71 192,64 192,64 192,74 192,59 192,72 192,65 192,58 192,58 192,57 192,58 192,57 192,78 192,78 192,78 192,78 192,78 192,78
	Sheep wash, W. Little. Sheet metalvessel handle, F. G. Niedringhaus et al. Shirt, M. Simon. Show case, W. Shockley. Skate, O. Edwards. Skiving machine, W. S. Fitzgerald. Soldering tool, L. Cutting. Spoke socket, J. P. Parkhurst. Stable scuttle, W. M. Watkins Steam and water cock, Guild & Lewis. Steam radiator, R. S. Gillespie. Stopcock, etc., J. G. Murdock Stopcock, etc., J. G. Murdock Stove, F. A. & A. B. Lyman. Stove, E. L. Matteson. Stove, J. D. Murray. Stoves, O. F. Stedman. Stove, Grate, J. H. Mearns Telegraph signal, L. B. Firman. Ticket machine, H. Van Geasen. Tobacco label, G. W. Yerby. Tobacco cutter, C. F. Harlow.	192,58 192,78 192,79 192,71 192,64 192,64 192,62 192,72 192,62 192,75 192,58 192,77 192,78 192,77 192,72 192,74 192,74 192,74 192,74 192,74 192,74 192,74
	Sheep wash, W. Little. Sheet metalvessel handle, F. G. Niedringhaus et al. Shirt, M. Simon Show case, W. Shockley. Skate, O. Edwards. Skiving machine, W. S. Fitzgerald. Soldering tool, L. Cutting. Spoke socket, J. P. Parkhurst. Stable scuttle, W. M. Watkins Steam and water cock, Guild & Lewis. Steam radiator, R. S. Gillespie. Stopcock, etc., J. G. Murdock Stopcock, etc., J. G. Murdock Stopcock, R. Lapham Stove, F. A. & A. B. Lyman. Stove, J. D. Murray. Stoves, O. F. Stedman. Stove, grate, J. H. Mearns Telegraph signal, L. B. Firman Ticket machine, H. Van Geasen. Tobacco label, G. W. Yerby. Tobacco cutter, C. F. Harlow. Tobacco cutter, C. F. Harlow.	192,58 192,79 192,79 192,71 192,64 192,64 192,74 192,59 192,72 192,65 192,58 192,77 192,58 192,77 192,78 192,77 192,78 192,77 192,77 192,77 192,77
• • • •	Sheep wash, W. Little. Sheet metalvessel handle, F. G. Niedringhaus et al. Shirt, M. Simon. Show case, W. Shockley. Skate, O. Edwards. Skiving machine, W. S. Fitzgerald. Soldering tool, L. Cutting. Spoke socket, J. P. Parkhurst. Stable scuttle, W. M. Watkins Steam and water cock, Guild & Lewis. Steam radiator, R. S. Gillespie. Stopcock, etc., J. G. Murdock Stopcock, etc., J. G. Murdock Stopcock, R. Lapham Stove, F. A. & A. B. Lyman. Stove, J. D. Murray. Stoves, O. F. Stedman. Stove, grate, J. H. Mearns Telegraph signal, L. B. Firman Ticket machine, H. Van Geasen Tobacco label, G. W. Yerby. Tobacco cutter, C. F. Harlow. Tobacco safe, L. C. Parker. Toilet screen, E. S. Lathrop. Tonsorial compound. W. Clark.	192,58 192,77 192,77 192,77 192,64 192,64 192,72 192,62 192,72 192,62 192,58 192,58 192,58 192,77 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 192,72 19
	Sheep wash, W. Little. Sheet metalvessel handle, F. G. Niedringhaus et al. Shirt, M. Simon Show case, W. Shockley. Skate, O. Edwards. Skiving machine, W. S. Fitzgerald. Soldering tool, L. Cutting. Spoke socket, J. P. Parkhurst. Stable scuttle, W. M. Watkins Steam and water cock, Guild & Lewis. Steam radiator, R. S. Gillespie. Stopcock, etc., J. G. Murdock Stopcock, R. Lapham Stove, F. A. & A. B. Lyman. Stove, E. I. Matteson. Stove, J. D. Murray. Stoves, O. F. Stedman. Stove, grate, J. H. Mearns. Telegraph signal, L. B. Firman Ticket machine, H. Van Geasen. Tobacco label, G. W. Yerby. Tobacco safe, L. C. Parker. Toilet screen, E. S. Lathrop. Tonsorial compound, W. Clark Toy, A. Gartner. Turbine wheel, A. R. Guilder.	192,585 192,79 192,79 192,71 192,64 192,74 192,69 192,62 192,72 192,62 192,75 192,58 192,58 192,58 192,58 192,77 192,71 192,77 192,77 192,77 192,71 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,68
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	Sheep wash, W. Little. Sheet metalvessel handle, F. G. Niedringhaus et al. Shirt, M. Simon Show case, W. Shockley. Skate, O. Edwards. Skiving machine, W. S. Fitzgerald. Soldering tool, L. Cutting. Spoke socket, J. P. Parkhurst Stable scuttle, W. M. Watkins Steam and water cock, Guild & Lewis Steam radiator, R. S. Gillespie. Stopcock, etc., J. G. Murdock Stopcock, etc., J. G. Murdock Stopcock, R. Lapham Stove, F. A. & A. B. Lyman Stove, E. I. Matteson Stove, J. D. Murray. Stoves, O. F. Stedman Stove, grate, J. H. Mearns Telegraph signal, L. B. Firman Ticket machine, H. Van Geasen Tobacco label, G. W. Yerby Tobacco safe, L. C. Parker Toilet screen, E. S. Lathrop. Tonsorial compound, W. Clark Toy, A. Garther Turbine wheel, A. R. Guilder Turbine wheel, E. M. Hale Umbrella tip, E. Croft. Vase holder, C. Heckert. Vehicle axle box, I. N. Camp Ventile hub, C. J. Valentine. Ventileting bung, I. H. Lesser.	192,58 192,78 192,71 192,71 192,64 192,64 192,64 192,64 192,65 192,65 192,65 192,65 192,65 192,77 192,71 192,71 192,71 192,71 192,71 192,71 192,71 192,71 192,71 192,71 192,71 192,71 192,71 192,71 192,71 192,71 192,71 192,71 192,71 192,71 192,71 192,71 192,71 192,71 192,71 192,72 192,73
• • • •	Sheep wash, W. Little. Sheet metalvessel handle, F. G. Niedringhaus et al. Shirt, M. Simon Show case, W. Shockley. Skate, O. Edwards Skiving machine, W. S. Fitzgerald. Soldering tool, L. Cutting. Spoke socket, J. P. Parkhurst. Stable scuttle, W. M. Watkins Steam and water cock, Guild & Lewis Steam radiator, R. S. Gillespie. Stopcock, etc., J. G. Murdock Stopcock, etc., J. G. Murdock Stopcock, R. Lapham Stove, F. A. & A. B. Lyman Stove, J. D. Murray. Stoves, O. F. Stedman. Stove, grate, J. H. Mearns Telegraph signal, L. B. Firman Ticket machine, H. Van Geasen Tobacco label, G. W. Yerby. Tobacco cutter, C. F. Harlow Tobacco safe, L. C. Parker Toilet screen, E. S. Lathrop. Tonsorial compound, W. Clark Toy, A. Gartner Turbine wheel, A. R. Guilder Turbine wheel, E. M. Hale Umbrella tip, E. Croft. Vase holder, C. Heckert Vehicle axle box, I. N. Camp. Vehicle hub, C. J. Valentine Ventilating bung, L. H. Lesser.	192,588 192,787 192,791 192,791 192,64 192,64 192,64 192,65 192,65 192,65 192,58 192,77 192,72 192,62 192,58 192,77 192,78 192,58 192,77 192,78 192,62 192,79 192,79 192,70 192,56 192,62 192,79 192,70 192,56 192,79 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70
	Sheep wash, W. Little. Sheet metalvessel handle, F. G. Niedringhaus et al. Shirt, M. Simon Show case, W. Shockley. Skate, O. Edwards. Skiving machine, W. S. Fitzgerald. Soldering tool, L. Cutting. Spoke socket, J. P. Parkhurst Stable scuttle, W. M. Watkins Steam and water cock, Guild & Lewis Steam radiator, R. S. Gillespie. Stopcock, etc., J. G. Murdock Stopcock, etc., J. G. Murdock Stopcock, R. Lapham Stove, F. A. & A. B. Lyman Stove, E. I. Matteson Stove, J. D. Murray Stove, O. F. Stedman Stove, grate, J. H. Mearns Telegraph signal, L. B. Firman Ticket machine, H. Van Geasen Tobacco label, G. W. Yerby Tobacco cutter, C. F. Harlow Tobacco safe, L. C. Parker Toilet screen, E. S. Lathrop. Tonsorial compound. W. Clark Toy, A. Gartner Turbine wheel, A. R. Guilder Turbine wheel, E. M. Hale Umbrella tip, E. Croft. Vase holder, C. Heckert Vehicle axle box, I. N. Camp. Vehicle hub, C. J. Valentine. Ventilator, A. Barnum Ventilator, T. M. Foster. Volute motor spring, D. Carter.	192,588 192,78 192,71 192,71 192,62 192,74 192,59 192,74 192,59 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,62 192,77 192,70 192,76 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,70 192,56
	Sheep wash, W. Little. Sheet metalvessel handle, F. G. Niedringhaus et al. Shirt, M. Simon Show case, W. Shockley. Skate, O. Edwards Skiving machine, W. S. Fitzgerald Soldering tool, L. Cutting Spoke socket, J. P. Parkhurst Stable scuttle, W. M. Watkins Steam and water cock, Guild & Lewis Steam radiator, R. S. Gillespie. Stopcock, etc., J. G. Murdock Stopcock, etc., J. G. Murdock Stopcock, R. Lapham Stove, F. A. & A. B. Lyman Stove, E. L. Matteson Stove, E. L. Matteson Stove, J. D. Murray. Stoves, O. F. Stedman. Stove, grate, J. H. Mearns Telegraph signal, L. B. Firman Ticket machine, H. Van Geasen. Tobacco cutter, C. F. Harlow. Tobacco cutter, C. F. Harlow. Tobacco cutter, C. F. Harlow. Tobacco cutter, C. F. Lathrop. Tonsorial compound. W. Clark Toy, A. Gartner. Turbine wheel, E. M. Hale Umbrella tip, E. Croft. Vase holder, C. Heckert. Vehicle axle box, I. N. Camp. Vehicle hub, C. J. Valentine. Ventilating bung, I. H. Lesser Ventilator, T. M. Foster. Volute motor spring, D. Carter Wagon bed, W. J. Kinsey. Wagon end gate rod, J. Genzly.	192,58 192,78 192,71 192,71 192,62 192,74 192,59 192,62 192,75 192,75 192,75 192,77 192,77 192,77 192,77 192,77 192,77 192,77 192,77 192,77 192,77 192,77 192,77 192,77 192,70 192,62 192,63 192,65 192,56 192,56 192,56 192,56
	Sheep wash, W. Little. Sheet metalvessel handle, F. G. Niedringhaus et al. Shirt, M. Simon Show case, W. Shockley. Skate, O. Edwards. Skiving machine, W. S. Fitzgerald. Soldering tool, L. Cutting. Spoke socket, J. P. Parkhurst. Stable scuttle, W. M. Watkins Steam and water cock, Guild & Lewis. Steam radiator, R. S. Gillespie. Stopcock, etc., J. G. Murdock Stopcock, etc., J. G. Murdock Stopcock, R. Lapham Stove, F. A. & A. B. Lyman. Stove, E. I. Matteson. Stove, J. D. Murray. Stoves, O. F. Stedman. Stove, grate, J. H. Mearns Telegraph signal, L. B. Firman Ticket machine, H. Van Geasen. Tobacco label, G. W. Yerby. Tobacco cutter, C. F. Harlow. Tobacco safe, L. C. Parker. Toilet screen, E. S. Lathrop. Tonsorial compound. W. Clark Toy, A. Garther. Turbine wheel, A. R. Guilder. Turbine wheel, E. M. Hale Umbrella tip, E. Croft. Vase holder, C. Heckert. Vehicle axle box, I. N. Camp. Vehicle hub, C. J. Valentine. Ventilator, T. M. Foster. Volute motor spring, D. Carter. Wagon bed, W. J. Kinsey. Wagon end gate rod, J. Genzly.	192,588 192,78 192,71 192,69 192,74 192,59 192,74 192,59 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69
	Sheep wash, W. Little. Sheet metalvessel handle, F. G. Niedringhaus et al. Shirt, M. Simon Show case, W. Shockley. Skate, O. Edwards. Skiving machine, W. S. Fitzgerald. Soldering tool, L. Cutting Spoke socket, J. P. Parkhurst Stable scuttle, W. M. Watkins Steam and water cock, Guild & Lewis Steam radiator, R. S. Gillespie. Stopcock, etc., J. G. Murdock Stopcock, etc., J. G. Murdock Stopcock, R. Lapham Stove, F. A. & A. B. Lyman Stove, E. I. Matteson Stove, E. I. Matteson Stove, J. D. Murray. Stoves, O. F. Stedman Stove, grate, J. H. Mearns Telegraph signal, L. B. Firman Ticket machine, H. Van Geasen Tobacco label, G. W. Yerby. Tobacco cutter, C. F. Harlow Tobacco cutter, C. F. Harlow Tobacco cutter, C. F. Harlow Tobacco safe, L. C. Parker Tirbine wheel, A. R. Guilder Turbine wheel, A. R. Guilder Turbine wheel, E. M. Hale Umbrella tip, E. Croft. Vase holder, C. Heckert Vehicle axle box, I. N. Camp. Vehicle hub, C. J. Valentine. Ventilator, A. Barnum Ventilator, T. M. Foster. Volute motor spring, D. Carter Wagon bed, W. J. Kinsey. Wagon seat spring, T. Thompson Wagon spring, A. W. McKown. Wash basin, C. E. Yvelin. Washing machine, S. Needles.	192,58 192,78 192,71 192,69 192,71 192,62 192,74 192,59 192,58 192,58 192,58 192,58 192,58 192,77 192,19 192,62 192,79 192,79 192,79 192,70 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 19
	Sheep wash, W. Little. Sheet metalvessel handle, F. G. Niedringhaus et al. Shirt, M. Simon Show case, W. Shockley. Skate, O. Edwards. Skiving machine, W. S. Fitzgerald. Soldering tool, L. Cutting. Spoke socket, J. P. Parkhurst Stable scuttle, W. M. Watkins Steam and water cock, Guild & Lewis Steam radiator, R. S. Gillespie. Stopcock, etc., J. G. Murdock Stopcock, etc., J. G. Murdock Stopcock, R. Lapham Stove, F. A. & A. B. Lyman Stove, E. I. Matteson Stove, J. D. Murray. Stoves, O. F. Stedman Stove, grate, J. H. Mearns Telegraph signal, L. B. Firman Ticket machine, H. Van Geasen Tobacco label, G. W. Yerby Tobacco cutter, C. F. Harlow. Tobacco safe, L. C. Parker Toilet screen, E. S. Lathrop. Tonsorial compound, W. Clark Toy, A. Garther Turbine wheel, A. R. Guilder. Turbine wheel, E. M. Hale Umbrella tip, E. Croft. Vase holder, C. Heckert. Vehicle axle box, I. N. Camp Vehicle hub, C. J. Valentine. Ventilator, T. M. Foster. Volute motor spring, D. Carter Wagon bed, W. J. Kinsey. Wagon seat spring, T. Thompson Wagon spring, A. W. McKown. Washing machine, S. Needles. Water closet valve, S. Eckert.	192,588 192,78 192,71 192,61 192,71 192,62 192,74 192,59 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,69 192,69 192,64 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,77 192,80
	Sheep wash, W. Little. Sheet metalvessel handle, F. G. Niedringhaus et al. Shirt, M. Simon Show case, W. Shockley. Skate, O. Edwards Skiving machine, W. S. Fitzgerald. Soldering tool, L. Cutting Spoke socket, J. P. Parkhurst Stable scuttle, W. M. Watkins Steam and water cock, Guild & Lewis Steam radiator, R. S. Gillespie. Stopcock, etc., J. G. Murdock Stopcock, etc., J. G. Murdock Stopcock, R. Lapham Stove, F. A. & A. B. Lyman Stove, E. I. Matteson Stove, E. I. Matteson Stove, J. D. Murray. Stoves, O. F. Stedman Stove, grate, J. H. Mearns Telegraph signal, L. B. Firman Ticket machine, H. Van Geasen Tobacco label, G. W. Yerby. Tobacco cutter, C. F. Harlow Tobacco cutter, C. F. Harlow Tobacco cutter, C. F. Harlow Tobacco safe, L. C. Parker Turbine wheel, A. R. Guilder Turbine wheel, A. R. Guilder Turbine wheel, E. M. Hale Umbrella tip, E. Croft. Vase holder, C. Heckert Vehicle axle box, I. N. Camp. Vehicle hub, C. J. Valentine Ventilator, A. Barnum Ventilator, T. M. Foster. Volute motor spring, D. Carter Wagon bed, W. J. Kinsey. Wagon seat spring, T. Thompson Wagon spring, A. W. McKown. Wash basin, C. E. Yvelin. Washing machine, S. Needles Water wheel, J. Bourgeois Weaving shuttle, W. L. Gilbert, (re-issue).	192,58 192,78 192,71 192,69 192,74 192,59 192,74 192,59 192,75 192,59 192,58 192,58 192,58 192,58 192,58 192,77 192,19 192,62 192,79 192,79 192,79 192,79 192,79 192,79 192,79 192,79 192,79 192,79 192,79 192,79 192,79 192,79 192,79 192,79 192,79 192,79 192,79 192,79 192,79 192,79 192,79 192,79 192,79 192,79 192,79 192,80 192,66 192,67 192,67
	Sheep wash, W. Little. Sheet metalvessel handle, F. G. Niedringhaus et al. Shirt, M. Simon Show case, W. Shockley. Skate, O. Edwards. Skiving machine, W. S. Fitzgerald. Soldering tool, L. Cutting. Spoke socket, J. P. Parkhurst. Stable scuttle, W. M. Watkins Steam and water cock, Guild & Lewis Steam radiator, R. S. Gillespie. Stopcock, etc., J. G. Murdock Stopcock, etc., J. G. Murdock Stopcock, R. Lapham Stove, F. A. & A. B. Lyman Stove, J. D. Murray. Stoves, O. F. Stedman. Stove, J. D. Murray. Stoves, O. F. Stedman. Telegraph signal, L. B. Firman Ticket machine, H. Van Geasen. Tobacco label, G. W. Yerby. Tobacco safe, L. C. Parker. Toilet screen, E. S. Lathrop. Tonsorial compound, W. Clark Toy, A. Gartner. Turbine wheel, A. R. Guilder. Turbine wheel, E. M. Hale Umbrella tip, E. Croft. Vase holder, C. Heckert. Vehicle axle box, I. N. Camp. Vehicle hub, C. J. Valentine. Ventilator, A. Barnum Ventilator, T. M. Foster. Volute motor spring, D. Carter. Wagon bed, W. J. Kinsey. Wagon seat spring, T. Thompson Wagon spring, A. W. McKown. Wash basin, C. E. Yvelin. Washing machine, S. Needles. Water closet valve, S. Eckert. Water wheel, J. J. Bourgeois Weaving shuttle, W. L. Gilbert, (re-issue). Whifletree, C. D. Smith. Whip, O. Breckenridge.	192,58 192,78 192,71 192,64 192,79 192,69 192,79 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,77 192,64 192,77 192,64 192,79 192,58 192,62 192,77 192,64 192,79 192,58 192,69 192,79 192,58 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,79 192,80 192,79 192,80 192,79 192,80 192,79 192,80 192,79 192,80
	Sheep wash, W. Little. Sheet metalvessel handle, F. G. Niedringhaus et al. Shirt, M. Simon Show case, W. Shockley. Skate, O. Edwards. Skiving machine, W. S. Fitzgerald. Soldering tool, L. Cutting Spoke socket, J. P. Parkhurst. Stable scuttle, W. M. Watkins Steam and water cock, Guild & Lewis Steam radiator, R. S. Gillespie. Stopcock, etc., J. G. Murdock Stopcock, etc., J. G. Murdock Stopcock, etc., J. G. Murdock Stove, F. A. & A. B. Lyman Stove, E. L. Matteson Stove, E. L. Matteson Stove, J. D. Murray. Stoves, O. F. Stedman. Stove, grate, J. H. Mearns Telegraph signal, L. B. Firman Ticket machine, H. Van Geasen Tobacco label, G. W. Yerby. Tobacco cutter, C. F. Harlow Tobacco cutter, C. F. Harlow Tobacco safe, L. C. Parker Toilet screen, E. S. Lathrop. Tonsorial compound. W. Clark Toy, A. Gartner Turbine wheel, A. R. Guilder Turbine wheel, E. M. Hale Umbrella tip, E. Croft. Vase holder, C. Heckert. Vehicle axle box, I. N. Camp. Vehicle hub, C. J. Valentine. Ventilator, T. M. Foster. Volute motor spring, D. Carter. Wagon bed, W. J. Kinsey. Wagon end gate rod, J. Genzly Wagon seat spring, T. Thompson Wagon spring, A. W. McKown. Wash basin, C. E. Yvelin. Washing machine, S. Needles. Water wheel, J. J. Bourgeois Weaving shuttle, W. L. Gilbert, (re-issue). Whiffletree, C. D. Smith. Whip, O. Breckenridge. Windmill, W. G. Alexander.	192,58 192,78 192,71 192,61 192,71 192,62 192,74 192,59 192,56 192,56 192,57 192,59 192,57 192,59 192,57 192,10 192,59 192,58 192,57 192,77 192,10 192,62 192,79 192,79 192,70 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,79 192,70 192,56 192,69 192,69 192,59 192,79 192,70 192,56 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,79 192,60 192,60 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,60 192,69 192,69 192,60 192,69 192,60 192,60
	Sheep wash, W. Little. Sheet metalvessel handle, F. G. Niedringhaus et al. Shirt, M. Simon Show case, W. Shockley. Skate, O. Edwards. Skiving machine, W. S. Fitzgerald. Soldering tool, L. Cutting Spoke socket, J. P. Parkhurst. Stable scuttle, W. M. Watkins Steam and water cock, Guild & Lewis Steam radiator, R. S. Gillespie. Stopcock, etc., J. G. Murdock Stopcock, etc., J. G. Murdock Stopcock, R. Lapham Stove, F. A. & A. B. Lyman Stove, E. L. Matteson Stove, E. I. Matteson Stove, J. D. Murray. Stoves, O. F. Stedman Stove, grate, J. H. Mearns Telegraph signal, L. B. Firman Ticket machine, H. Van Geasen. Tobacco cutter, C. F. Harlow. Tobacco safe, L. C. Parker. Toilet screen, E. S. Lathrop. Tonsorial compound. W. Clark. Toy, A. Gartner. Turbine wheel, A. R. Guilder. Turbine wheel, A. R. Guilder. Turbine wheel, E. M. Hale Umbrella tip, E. Croft. Vase holder, C. Heckert. Vehicle axle box, I. N. Camp. Vehicle hub, C. J. Valentine. Ventilator, T. M. Foster. Volute motor spring, D. Carter. Wagon bed, W. J. Kinsey. Wagon end gate rod, J. Genzly. Wagon seat spring, T. Thompson Wagon spring, A. W. McKown. Wash basin, C. E. Yvelin Washing machine, S. Needles. Water closet valve, S. Eckert. Water wheel, J. J. Bourgeois Weaving shuttle, W. L. Gilbert, (re-issue). Whiffletree, C. D. Smith. Whip, O. Breckenridge. Windmill, W. G. Alexander. Windmill, Rhoades, et al. Window bracket, J. F. Zimmerman.	192,58 192,78 192,71 192,61 192,71 192,62 192,74 192,59 192,62 192,75 192,59 192,58 192,57 192,59 192,76 192,79 192,62 192,77 192,10 192,62 192,77 192,10 192,63 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58
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	Sheep wash, W. Little. Sheet metalvessel handle, F. G. Niedringhaus et al. Shirt, M. Simon Show case, W. Shockley. Skate, O. Edwards. Skiving machine, W. S. Fitzgerald. Soldering tool, L. Cutting Spoke socket, J. P. Parkhurst. Stable scuttle, W. M. Watkins Steam and water cock, Guild & Lewis Steam radiator, R. S. Gillespie. Stopcock, etc., J. G. Murdock Stopcock, etc., J. G. Murdock Stopcock, R. Lapham Stove, F. A. & A. B. Lyman Stove, E. L. Matteson Stove, E. I. Matteson Stove, J. D. Murray. Stoves, O. F. Stedman Stove, grate, J. H. Mearns Telegraph signal, L. B. Firman Ticket machine, H. Van Geasen. Tobacco cutter, C. F. Harlow. Tobacco cutter, C. F. Harlow. Tobacco cutter, C. F. Harlow. Tobacco safe, L. C. Parker. Toilet screen, E. S. Lathrop. Tonsorial compound. W. Clark. Toy, A. Gartner. Turbine wheel, A. R. Guilder. Turbine wheel, A. R. Guilder. Turbine wheel, E. M. Hale Umbrella tip, E. Croft. Vase holder, C. Heckert. Vehicle axle box, I. N. Camp. Vehicle hub, C. J. Valentine. Ventilator, T. M. Foster. Volute motor spring, D. Carter. Wagon seat spring, T. Thompson Wagon spring, A. W. McKown. Wash basin, C. E. Yvelin Washing machine, S. Needles. Water closet valve, S. Eckert. Water wheel, J. J. Bourgeois Weaving shuttle, W. L. Gilbert, (re-issue). Whiffletree, C. D. Smith. Whip, O. Breckenridge. Windmill, W. G. Alexander. Windmill, Rhoades, et al. Window washer, G. G. Clark. Window washer, G. G. Clark. Window washer, G. G. Clark.	192,58 192,78 192,71 192,69 192,71 192,69 192,74 192,59 192,65 192,56 192,57 192,59 192,57 192,19 192,62 192,77 192,19 192,62 192,77 192,19 192,62 192,79 192,19 192,62 192,79 192,19 192,62 192,67 192,79 192,19 192,66 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69 192,69
	Sheep wash, W. Little. Sheet metalvessel handle, F. G. Niedringhaus et al. Shirt, M. Simon Show case, W. Shockley. Skate, O. Edwards. Skiving machine, W. S. Fitzgerald. Soldering tool, L. Cutting. Spoke socket, J. P. Parkhurst Stable scuttle, W. M. Watkins Steam and water cock, Guild & Lewis Steam radiator, R. S. Gillespie. Stopcock, etc., J. G. Murdock Stopcock, etc., J. G. Murdock Stopcock, R. Lapham Stove, F. A. & A. B. Lyman Stove, E. I. Matteson. Stove, J. D. Murray. Stoves, O. F. Stedman. Stove, grate, J. H. Mearns Telegraph signal, L. B. Firman Ticket machine, H. Van Geasen. Tobacco label, G. W. Yerby. Tobacco cutter, C. F. Harlow. Tobacco safe, L. C. Parker. Toilet screen, E. S. Lathrop. Tonsorial compound. W. Clark Toy, A. Gartner Turbine wheel, A. R. Guilder. Turbine wheel, E. M. Hale Umbrella tip, E. Croft. Vase holder, C. Heckert. Vehicle axle box, I. N. Camp. Vehicle hub, C. J. Valentine. Ventilator, A. Barnum Ventilator, T. M. Foster. Volute motor spring, D. Carter. Wagon bed, W. J. Kinsey. Wagon seat spring, T. Thompson Wagon spring, A. W. McKown. Wash basin, C. E. Yvelin. Washing machine, S. Needles. Water closet valve, S. Eckert. Weindmill, W. Peck. Windmill, W. Peck. Windmill, Rhoades, et al. Window washer, G. G. Clark. Wire stretcher, W. Z. Dafoe Wood boring machine, J. D. Shoots. Wringer roll, J. Greacen, Jr.	192,58 192,78 192,71 192,61 192,71 192,62 192,74 192,59 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,69 192,58 192,69 192,58 192,69 192,58 192,69 192,58 192,69 192,58 192,69 192,58 192,69 192,58 192,69 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59
	Sheep wash, W. Little. Sheet metalvessel handle, F. G. Niedringhaus et al. Shirt, M. Simon Show case, W. Shockley. Skate, O. Edwards. Skiving machine, W. S. Fitzgerald. Soldering tool, L. Cutting Spoke socket, J. P. Parkhurst Stable scuttle, W. M. Watkins Steam and water cock, Guild & Lewis Steam radiator, R. S. Gillespie. Stopcock, etc., J. G. Murdock Stopcock, etc., J. G. Murdock Stopcock, R. Lapham Stove, F. A. & A. B. Lyman Stove, E. I. Matteson Stove, J. D. Murray. Stoves, O. F. Stedman Stove, grate, J. H. Mearns. Telegraph signal, L. B. Firman Ticket machine, H. Van Geasen Tobacco label, G. W. Yerby. Tobacco cutter, C. F. Harlow. Tobacco safe, L. C. Parker. Toilet screen, E. S. Lathrop. Tonsorial compound. W. Clark. Toy, A. Gartner. Turbine wheel, A. R. Guilder Turbine wheel, E. M. Hale Umbrella tip, E. Croft. Vase holder, C. Heckert. Vehicle axle box, I. N. Camp. Vehicle hub, C. J. Valentine. Ventilator, A. Barnum Ventilator, T. M. Foster. Volute motor spring, D. Carter Wagon bed, W. J. Kinsey. Wagon seat spring, T. Thompson Wagon spring, A. W. McKown. Wash basin, C. E. Yvelin. Washing machine, S. Needles. Water closet valve, S. Eckert. Whiffletree, C. D. Smith. Whip, O. Breckenridge Windmill, W. Peck Windmill, Rhoades, et al. Window bracket, J. F. Zimmerman. Window washer, G. G. Clark. Wire stretcher, W. Z. Dafoe Wood boring machine, J. D. Shoots.	192,58 192,78 192,71 192,61 192,71 192,62 192,74 192,59 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,58 192,69 192,58 192,69 192,58 192,69 192,58 192,69 192,58 192,69 192,58 192,69 192,58 192,69 192,58 192,69 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59 192,59

086.-MATCH SAFES.-W. H. Matthai, Baltimore, Md. -Cassimeres.-W. B. Weeden, Providence, R. I. 0.088.—MONUMENT.—A. M. Buchanan, Moberly, Mo. 0.089.—Cassimergs.—O. F. Chase, Thompson, Conn. 0.090.—Oil Stoves.—W. Hailes and J. Gray, Albany, N. Y.