same with the sender's name. Much confusion and trouble is often caused by such unmarked packages becoming separated from the letters sent with them.

W. B. H. asks: When is the best time for moving grape vines?—S. asks; How can I make a red, blue, and white stencil ink, such as is used for marking boxes, etc.?—C. L. S. and others ask: How can I make transfer paper for marking linen indelibly? It is used in this way: Place the transfer paper upon the linen to be marked, and over that place a piece of ordinary white writing paper, and mark with a lead or slate pencil or stiletto Heat the writing with a moderately hot flat iron for two or three minutes, and it is permanent.—W. F. W. asks: What prevents bees from swarming, and what will induce them to swarm?

COMMUNICATIONS RECEIVED.

The Editor of the SCIENTIFIC AMERICAN acknowledges, with much pleasure, the receipt of original papers and contributions upon the following subjects:

On the Keely Motor. By J. C., by E. T., by J. J. A., by O., by C. F., by W. L. D., by B. K., and by J. C. H.

On Evergreens in Orchards. By F. R. E.

On Tides in the Gulf of Mexico. By T. H.

On Powder Mill Explosions. By J. M.

On the Spider's Web. By S. T. W.

On Melting Iron. By T. H. A.

On Spring Power for Cars. By F. G. W.

On a Singular Electrical Phenomenon. By T. P. C.

Also inquiries and answers from the following:

G. H. B.—F. H.—J. D. C.—C. C.—J. D. S.—C. B. B.—H. G. W.—D. A. W.—R. C. T.—R. C. C.

HINTS TO CORRESPONDENTS.

Correspondents whose inquiries fail to appear should repeat them. If not then published, they may conclude that, for good reasons, the Editor declines them. The address of the writer should always be given.

Enquiries relating to patents, or to the patentability of inventions, assignments, etc., will not be published here. All such questions, when initials only are given, are thrown into the waste basket, as it would fill half of our paper to print them all; but we generally take pleasure in answering briefly by mail, if the writer's address is given.

Hundreds of inquiries analogous to the following are sent: "Who buys rare coins? Who makes wooden screw bungs? Who builds bridges? Where can molds for ornamental vases be obtained? Who sells pure platinum? Who sells engraver's tools?" All such personal inquiries are printed, as will be observed, in the column of "Business and Personal," which is specially set apart for that purpose, subject to the charge mentioned at the head of that column. Almost any desired information can in this way be expeditiously obtained.

[OFFICIAL.]

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8,440.—PIANO STOOLS.—G. W. Archer, Rochester, N. Y.
8,441.—STOVES.—W. Burrows, New York city.
8,442.—POTTERY.—T. H. Copeland, Geddes, N. Y.
8,443.—CARD OF BUTTONS.—G. Farmer, Brooklyn, N. Y.
8,444, 8,445.—CARPETS.—H. F. Goetze, Boston, Mass.
8,446, 8,447.—TYPE.—C. E. Heyer, Boston, Mass.
8,448.—COFFIN PLATES.—W. Parkin, Taunton, Mass.
8,449.—ADVERTISING LANTERN.—F. L. Pisch, N. Y. city.

SCHEDULE OF PATENT FEES.

On each Caveat.... $10
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On issuing each original Patent.... $20
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On appeal to Commissioner of Patents.... $20
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CANADIAN PATENTS.

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4,887.—G. H. Reynolds, New York city, U. S. Rock-drilling machine. June 18, 1875.
4,888.—L. Munro, Ottawa, Ont., *et al.* Spooler and pincushion combined. June 24, 1875.
4,889.—J. E. Buerk, Boston, Mass., U. S. Watchman's time detecter. June 24, 1875.
4,890.—W. P. Widdifield, Siloam, Ont. Saw carriage and feed movement. June 24, 1875.
4,891.—E. Seaman, Andover, N. Y., U. S. Window blind. June 24, 1875.
4,892.—J. S. Wallace *et al*, Belfast, Ireland. Fire extinguisher. June 24, 1875.
4,893.—L. B. Stilson, Minneapolis, Minn., U. S. Safety car truck. June 24, 1875.
4,894.—E. F. Chapin *et al.*, Boston, Mass., U. S. Lamp extinguisher. June 24, 1875.
4,895.—O. Pagan *et al.*, Philadelphia, Pa., U. S. Roller tube expander. June 24, 1875.
4,896.—J. M. Munro *et al.*, Ottawa, Ont. Horse hoe. June 26, 1875.
4,897.—F. Rourk, Montreal, P. Q. Ventilation of sewers. June 28, 1875.
4,898.—N. Campbell, Rochester, N. Y., U. S. Curtain fixture. June 28, 1875.
4,899.—W. T. Wood, Mount Juliet, Tenn., U. S. Lamp extinguisher. June 28, 1875.
4,900.—A. A. Post, New York city, U. S. Liquid meter. June 28, 1875.
4,901.—F. J. Davis, Newport, Vt., U. S. Foot power lasting tool. June 28, 1875.
4,902.—H. Hagle, Warwick, Ont. Gate. June 28, 1875.
4,903.—J. S. Brooks, Pittsburgh, Pa., U. S. Backing electrotypes. June 28, 1875.
4,904.—J. C. Rorick, Wauseon, Ohio, U. S. Butter worker. June 28, 1875.
4,905.—C. J. Eames, New York city, U. S. Hydrocarbon reducing furnace. June 28, 1875.
4,906.—C. Lundy, East Gwillimbury, Ont. Hay rake. June 28, 1875.
4,907.—J. Hewitt, Grimsby, Ont. Fluting and glossing iron. June 28, 1875.
4,908.—A. Beaudry, Boston, Mass., U. S. Adze and ax. June 28, 1875.
4,909.—J. Flower, Detroit, Mich., U. S. Street hydrant. June 28, 1875.
4,910.—A. R. Morgan, New York city, U. S. Stove June 28, 1875.
4,911.—Wm. C. Shorey, Napanee, Ont. Horse hayknives and forks. July 6, 1875.
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4,913.—A. Gardner, Windsor, P. Q. Bevel pump engine. July 6, 1875
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4,915.—S. O. Greening, Hamilton, Ont. Lightning rod. July 6, 1875.
4,916.—J. F. Glidden, De Kalb, Ill., U. S. Wire fence. July 6, 1875.
4,917.—C. A. Sipe, Fairmount, W. Va., U. S. Apparatus for depositing coffins. July 6, 1875.
4,918.—M. Waterbury, Mason City, Iowa, U. S. Lamp extinguisher. July 6, 1875.
4,919.—J. Bellamy, Newtonville, Ont. Bag holder and truck. July 6, 1875.
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4,921.—R. C. Lambart, Quincy, Mass., U. S. Heel and sole trimming machine. July 6, 1875.
4,922.—R. R. Osgood, Troy, N. Y., U. S. Dredging machine. July 6, 1875.
4,923.—E. A. Beers, De Kalb Center, Ill., U. S. Draft equalizer. July 6, 1875.
4,924.—W. D. Peters *et al.*, Boston, Mass., U. S. Drainer for ships. July 6, 1875.
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4,926.—C. C. Brayley, Toronto, Ont. Rotary engine. July 6, 1875.
4,927.—N. W. Clark, Clarkston, Mich., U. S. Fish-hatching apparatus. July 6, 1875.
4,928.—W. S. Harland, Clinton, Ont. Self-heating glue pot. July 6, 1875.
4,929.—J. Payne, New Hamburg, Ont. Thistle destroyer. July 6, 1875.
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4,931.—A. Forbriger, Cincinnati, Ohio, U. S. Drawing or copy book. July 6, 1875.
4,932.—D. A. Root, South Bay City, Mich., U. S. Pad lock. July 6, 1875.
4,933.—W. E. Skinner, Milford, Mich., U. S. Quadrant bevel gage. July 6, 1875.
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4,935.—C. Windrath, Buffalo, N. Y., U. S. Cigar-bunching machine. July 6, 1875.
4,936.—R. Patrick *et al.*, Branchton, Ont. Double-acting reversible rotary pump. July 7, 1875.
4,937.—G. C. Hill, Danbury, Conn., U. S. Ironing board. July 7, 1875.
4,938.—W. M. Fuller *et a.*, New York city, U. S. Car heater. July 7, 1875.
4,939.—A. H. Lafin, New York city, U. S. Disintegrating fiberous substances. July 7, 1875.
4,940.—J. B. McDonald, Tiverton, Ont. Animal poke. July 7, 1875.
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4,942.—J. H. Crowell, Providence, R. I., U. S. Machine for making weavers' harness. July 7, 1875.
4,943.—J. M. Gover, Brockville, Ont. Extension drying table, etc. July 7, 1875.
4,944.—J. Martin, Jr., Toronto, Ont. Brick-making machine. July 7, 1875.
4,945.—Russel Pickel *et al.*, Plattsburg, N. Y., U. S. Railway switch. July 7, 1875.
4,946.—D. Pease, Floyd, N. Y., U. S. Buckwheat cleaning machine. July 7, 1875.
4,947.—P. C. Marsh, Northampton, Mass., U. S. Reefing sails. July 7, 1875.
4,948 & 4,949.—E. Gray, Chicago, Ill., U. S. Electro harmonic telegraphs. July 7, 1875.

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