1,635.—Self-loading Fire-arm.—Albert Ball, Worcester, Mass. Patented June 23, 1863:

I claim the mode substantially as described of making the rear part of the burrel or cartridge chamber, and the front part of the charging carriage, that is to say, making the charging carriage with a recess or trough for receiving a cartridge and allowing of the ejectment of its shell in manner as explained, and so constructing the breech end of the barrel or the cartridge chamber thereof, that such recess or trough of such charging carriage may, when the cartridge is in place in the bore or cartridge chamber, for m part of and complete such cartridge chamber, in manner substantially as described. I also claim the combination of the ejecting spring, D, with the charging curriage, when constructed and combined with a magazine and barrel, substantially in manner and so as to operate therewith as hereinbefore explained.

I also claim the combination of the locking-piece, P, with its actuating mechanism (viz. the spring, g, and catch, D, with the tumbler, I, and the charging carriage, O, the whole being constructed and arranged in manner and so as to operate together, substantially as explained.

I also claim the charging carriage as made in manner and so as to

plained.

I also claim the charging carriage as made in manner and so as to operate with the magazine and the barrel as described, viz: to receive within it a cartridge from the magazine, to raise it up to the barrel or charging clamber thereof, to form part of and serve as a breech to such chamber, and finally to withdraw the shell of the cartridge therefrom, all as explained.

ruge theretrom, at as explained.

1,636.—Steam Boiler.—Wm. M. & Jonas B. Ellis, Washington, D. C. Patented Aug. 26, 1862:

We claim connecting the water-legs, extending continuously from the front to the rear of the boiler, to the shell of the boiler at the point of the working water-line of the boiler, substantially as herein set forth.

1,637.—Steam Boiler.—Wm. M. & Jonas B. Ellis, Washington, D. C. Patented Aug. 26, 1862:

We claim gradually increasing the area of the tubes from the highest to the lowest tubes, as herein described.

1,638.—Side Lights for Ships.—Enoch S. Hidden (assignee of Enoch Hidden), New York City. Patented June 21, 1853. Re-issued Sept. 8, 1863:
I claim, first, The combination, substantially in the manner described, of a turning flange arranged, shaped, and operating substantially as specified with a glass frame and suitable interposed packing whereby the packing may be compressed and the frame held shut or have liberty to open under a mode of operation substantially as set forth.

forth. Second, I claim in combination with a glass frame and a turning flange substantially such as are described, a pin and a stop, operating substantially as set forth.

Third, I claim a stationary frame with projecting lugs having long mortices therein in combination with pins projecting from a glass frame, both substantially such as herein set forth, so that the glass frame may be opened and shut, substantially as set forth. Fourth, I claim in combination with a stationary frame attached to the side or deck of a vessel, a sleeve or ring of lead or other ductile metal, soldered or otherwise joined thereto, so that it can be flanged or turned over the edge of the opening through the vessel, thereby making the joint between the stationary frame, and the vessel water tight, substantially as described.

[639] —Wheel Skate —Orasmus M. Vail Brooklyn, N.

1,639.—Wheel Skate.—Orasmus M. Vail, Brooklyn, N. Y., and Thomas J. Vail, Hartford, Conn., assignees of Reuben Shaler, Madison, Conn. Patented Feb.

24, 1860 : 44, 1000:
We claim a roller skate which is a combination of a foot-stock with rollers made elastic by india-rubber or gutta-percha, the combination operating substantially as herein set forth.

DESIGNS.

1,920.—Nut-cracker.—Eli W. Blake (administrator of the estate of Edward F. Blake), New Haven, Conn. 1,921 to 1,924.—Carpet Patterns (4 cases.)—Elemir J. Ney (assignor to The Lowell Manufacturing Com-pany), Lowell, Mass.

EXTENSIONS.

Portable Furnace.—John T. Davy, Troy, N. Y. Letters
Patent No. 7,159. Dated March 12, 1850:
I claim combining with a portable furnace of the usual construction a surrounding heating chamber provided with apertures or slots to admit of the insertion or removal of the flaps combined with the door or flap at top, substantially as described.

I also claim providing the said air-heating chamber with a revolving top provided with a single small door or flap, which by the rotation may be brought directly over the slots in succession and the flaps inserted or removed, substantially as described.

inserted or removed, substantially as described.

Process of rolling India-rubber Cloth.—Francis D. Hayward & John C. Brickford, Colchester, Conn. Letters Patent No. 7,189. Dated March 19, 1850:

We claim the new or improved process of applying and fixing rubber to cloth by means of rollers; the said improved process being a combination of the method of spreading the rubber by the pressure of rollers, and the method of grinding and fixing it at the same time against and into the substance of the cloth, all as specified.

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Models are required to accompany applications for Pat ents under the new law, the same as formerly, except on design patents, when two good drawings are all that are required to accompany the petition, specification and oath, except the Government fee

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corners.

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MATENTS

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last ex-Commissioners of Patents:—

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fully deserved, as I have always observed, in all your intercourse with
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Yours very truly,
Chas. Mason.

Interests of your employers.

Judge Mason was succeeded by that eminent patriot and statesman, Hon. Joseph Holt, whose administration of the Patent Mice was so distinguished that, upon the death of Gov. Brown, he was appointed to the office of Postmaster-General of the United States. Soon after entering upon his new duties, in March, 1859, he addressed to us the following very gratifying letter:

MESSES, MUNN & Co.:—It alfords me much pleasure to bear testimony to the able and efficient manner in which you discharged your duties as Solicitors of Patents, while I had the honor of hodding the office of Commissioner. Your business was very large, and you sustained (and I doubt not justly deserved) the reputation of energy, marked ability, and uncompromising fidelity in perforting your professional engagements.

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On filing each Caveat.

10 filing each application for a Patent, except for a design \$15
On sissuing each original Patent.

10 application for Relissue.

10 application for Relissue.

10 application for Relissue.

10 application for extension of Patents.

10 application for extension of Patent.

10 application for extension of Patent.

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10 application for Design (seven years).

10 filing application for Design (courteen years).

10 filing application for Design (courteen years).

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