No. 18,482. Drawing Knife. (Plane.)

John S. Cantelo, Boston, Mass., U. S., 19th January, 1884; 5 years.

Jonn S. Cantelo, Boston, Mass., U. S., 19th January, 1884; 5 years.

Claim.—1st. The furcated hinge piece c provided with the two shanks i extended from it, as represented. 2nd. The hinge piece c provided with the two shanks i projecting from it, as represented, in combination with the body of the handle, grooved lengthwise to receive the blade and having the said shanks extended through it, the said body, and arranged with the groove between them, substantially as set forth. 3rd. Each metallic ferrule or cap of the handle provided with holes for reception of the shanks i, and also with the lips to enter the groove of the body at one end thereof, substantially and for the purpose specified. 4th. Each blade arm pivoted to the handle and provided with means of locking the arm in different positions relatively to the handle, as set forth. 5th. Each blade arm provided with a prismatic head, as described, in combination with the locking eccentric applied to such handle and adapted to operate with the said head, essentially as set forth.

No. 18,483. Fastening for Gloves, &c.

(Agrafe pour Gants, &c.)

William S. Richardson, Boston, Mass., U. S., 19th January, 1884; 5

William S. Richardson, Boston, Mass., U. S., 19th January, 1884; 5 years.

Claim—Ist.* A member of the fastening device having the spring sides forming a socket, and a lateral or downwardly projecting fastening portion, all substantially as and for the purpose described. 2nd. A member of a fastening device having a ball or equivalent shaped end, and the arm e integral therewith, all substantially as and for the purposes described. 3rd. The socket member of a fastening device having yielding sides el shaped, substantially as described, to form a socket, the flange c2 and a tubular or pronged extension for fastening the socket member in place, upon the article with which it is used, all substantially as and for the purposes described. 4th. A fastening for gloves and other articles comprising two members, one of which is a socket member, having the yielding sides cl., the flange c2, the tubular or pronged fastening extension and the other of which is a member having a ball or other suitable equivalent shaped device adapted to be enclosed by, and removed from the socket and having an arm by which it is adapted to be secured in place, all substantially as and for the purposes described. 5th. The process of making the socket member of a fastening device consisting in forming from sheetmetal a blank having the wings cl., then in sticking down the central portion of said blank to form a tubular or flanged fastening, then in bending upward and inward the wings cl, to form the flange c2 and the yielding sides of the socket, all substantially as and for the purposes described. 6th. The process of making a ball member of a fastening, consisting in forming a blank from sheet metal having the wings of the portion be in suitable dies, respectively to the shapes shown in Figs 12, 13 and 14, and also in forming the arm e1, all substantially as and for the purposes described.

No. 18,484. Sash Fastener. (Arrête-Croisée.)

Frederick Eberlein, Chicago, Ill., U. S., 21st January, 1884; 5 years.

Claim.—1st. In a sash lock, a spring-actuated bolt hinged upon the lower sash and provided with a handle at one end, and a bent arm at the other, in combination with the bevelled catches arranged in pairs upon the upper sash, substantially as and for the purpose set forth. 2nd. In a sash lock, the bolt c pivoted upon the lower sash and having a handle h on its lower end, and a bent arm at its upper end, the spring f and guard g, in combination with the bevelled catches e, l, m, secured in pairs upon the upper sash, substantially as and for the purpose set forth.

No. 18,485. Plastering Compound.

(Composition pour Crépir.)

Hannah E. Scales, Newton, Mass., U.S., 21st January, 1884; 5 years. Claim.—The compound herein described, for plastering or stucce work, consisting of rice flour. sand, salt or lime and plaster of Paris, mixed with weak glue and compounded together, in the proportions substantially as studied. substantially as stated.

No. 18,486. Refrigerator Car.

(Char Frigorifique.)

Cassius C. Palmer, Oakland, Cal., U. S., 21st January, 1884; 15 years. Claim.—1st.—The process of refrigerating the air in a chill room, which consists of compressing air within one or more compressed air compartments, compressing a volatile fluid in a compressor driven by the compressed air, cooling the compressed fluid and expanding the same under a partial vacuum in a refrigerator, substantially as described. 2nd. The process of refrigerating the air of a chill room, which consists of compressing air within one or more compressed air compressing chloride of ethyl in a compresser driven by the compressed air, cooling the compressed chloride of ethyl and expanding the same under a partial vacuum, substantially as described. 3rd. The method or process, substantially as described. of cooling air, which consists in compressing chloride of ethyl, condensing it by cooling, volatilizing it in a chamber of sufficient sectional area, wherein to deposit its crystals without obstructing topassage of the gas, and conducting the volatilized fluid through constructed passages adjoining which the air circulates. 4th. The method of driving an engire located upon a car, which consists in compressing and storing a gas by means of a pump operated by the motion of the car, and utilizing the gas for operating the engine, substantially as described. 5th. The method of cooling a refrigerator located upon a car, which consists in compressing and storing a gas by means of a pump operated by the motion of the car, and utilizing this gas for operating an engine to compress a volatile fluid, which is first compressed then passed through a condenser where it is gooled, and then expanded in the refrigerator, substantially as Cassius C. Palmer, Oakland, Cal., U. S., 21st January, 1884; 15 years.

described. 6th. The herein described method of cooling the air in a chill room, which employs two bodies of gas, the first of which is compressed and employed to drive the engine in which the second compressed, and the second, after being compressed by the power of the first, being cooled in a condenser and then being expanded to produce the requisite cold in the refrigerator. 7th. The herein described method of cooling the air of a chill room, which employs two bodies of gas, one of which as air is less easily compressed the theorem, as chloride of ethyl, the first of these bodies of gas being compressed and employed to drive the engine in which the second body of gas is compressed, and the second body of gas being expanded in the refrigerator for producing the requisite cold therein. The combination, substantially as described, with a railroad carron an air compressor located on the car and operated by the motion thereof, and one or more compressed air storage compartments wherein compressed air may be stored to be used for driving apparatus located in the car. 9th. A refrigerator car divided into a compartment for containing the articles to be refrigerated, a compartment containing the air compressing and gas compressing engines, a compartment containing the bear compressing and as compartment containing the condenser and a compartment containing the refrigerator, the last three being all arranged in a group and lower, the refrigerator, the last three being all arranged in a group of the produced by the fan blower, the condenser, the gas compartment and the air compressed air, the compressed air storage compartment and the air compressed air, the compressed compartment and the air compressed air, the compressed air storage compartment and described. 6th. The herein described method of cooling the air i ing the refrigerator, the last three being all arranged in a group and ing the refrigerator, the last three being all arranged in a group all combined substantially as described. 10th. In combination, the promocontaining inlet and outlet air openings, the air circulating air produced by the fan blower, the condenser, the gas compresser openated by compressed air, the compressed air storage compartment and the air compressor, substantially as described. 11th In combination the mechanism, substantially as described, whereby the prime gas compressing pump is operated by the motion of the same prime gas compressing pump is operated by the motion of the same prime gas compressing pump is operated by the motion of the same prime gas to the condenser, the refrigerator constructed with the horizon pressor and condenser, the refrigerator constructed with the horizon pressor and condenser, the refrigerator constructed with the horizon pressor and condenser, the refrigerator constructed with the horizon pressor and condenser, the refrigerator constructed with the horizon pressor and as gas compressing engine connected without a pressor and a gas compressing engine connected without a pressor and a gas compressing engine connected without a compressed air for driving the gas compressing engine, a pipe leading from the expansion cylinder of compressed air having no communication with the gas which so gressing engine, a pipe leading from the expansion cylinder original engine to said chill room, whereby the expanded air from the cylinder is conveyed to said chill room, to supply leakage and prevant services and the pressure of the same pressure and the gas compressing engine and the service of the pressure of t