

nut *k* can be introduced in the groove *i*. 7th. The combination, with the hames B, of a fastening device, each part of which is provided with a flange *n*, grooves *p* formed in the upper or rear sides of the hames, and extending to them in order to form openings for the introduction of the screw-nuts *o*, slots *pi* formed in the hames, and screw bolts *o*, whereby the flanges *n* are adjustably secured to the hames. 8th. The combination, with the pads Q of the plates A having their edges bent, or closed over the projecting edges of the pads. 9th. A pad provided with a back *q* having openings *r*, for the introduction of the stuffing material.

No. 15,359. Improvements in Horse Collars.
(*Perfectionnements aux colliers de cheval.*)

Carl Roehl and Charles P. Klenze, Davenport, Iowa, U. S., 23rd August, 1882; for 5 years.

Claim.—1st. The combination, with the metallic hame plates A, of the adjustable extensions B connected by a hinge *g*, and a locking device H composed of a bolt portion H¹ and a socket portion H², both attached adjustably to their respective hame-plates. 2nd. The locking device H composed of a bolt portion H¹ and a socket portion H², the bolt portion being composed of a hollow stud *k*, flat headed bolt K and spring *m*, and the socket portion being constructed with a cavity *o* provided with an elongated opening *p* and spiral grooves *q*. 3rd. The combination, with the hame-plates A, of the locking portions H¹ H² provided with flanges *h* and secured to the hame-plates by bolts *c* passing through elongated slots *c*³.

No. 15,360. Improvements on Churns.
(*Perfectionnements aux barattes.*)

William W. Kitchen, Grimsby, Ont., 23rd August, 1882; for 5 years.

Claim.—1st. A double action cataract pendulum churn A consisting of two boxes I I joined together at right angles to form the bottom and ends of the churn, with sides K and cover F. 2nd. The combination of the churn A, pendulum C and weight E, secured by pin G.

No. 15,361. Improvements on Wind-Mills.
(*Perfectionnements aux moulins à vent.*)

Clarence J. Hamilton and William O. Allen, Plymouth, Mich., U. S., 24th August, 1882; (reissue of pat. 14,007.)

Claim.—1st. A wind mill wherein the sails are automatically controlled and governed with relation to the force of the wind, by the centrifugal action of the weights which turn the sails upon their arms. 2nd. In a wind-mill, and in combination with the plate I and its connections, the laterally moving ring N and frame O secured to the yoke R by means of the bars P, said yoke being secured to the lever S, and by means of which the said ring and its frame are projected or retracted, for the purpose of operating the lever M, fulcrumed on the plate I.

No. 15,362 Improvements in Sleds.
(*Perfectionnements dans les traîneaux.*)

Robert A. Haldeman, Cincinnati, Ohio, U. S., 25th August, 1882; for 5 years.

Claim.—1st. The seat having the two runners B at the rear end, rigidly attached to the seat, in combination with the single runner M in front, secured to a swivel which projects centrally through the forward end of the seat. 2nd. The seat having at its forward end the boxing D provided with the flange E and lugs F in combination with the swivel H, having the cross handle I, shoulder J, lug K, ears L, runner M attached thereto.

No. 15,363. Improvements in Telegraphic and Telephonic Apparatus.
(*Perfectionnements aux appareils télégraphiques et téléphoniques.*)

François Van Rysselberghe, Schaerbeck, Belgium, 25th August, 1882; for 5 years.

Claim.—1st. The special arrangement of ordinary telegraphic and telephonic apparatus, clearly indicated in the drawing, the object of which being to separate the undulating currents of telephony and of harmonic telegraphy, from the continuous or instantaneous currents of ordinary telegraphy, by means of condensation, or of induction, and which permits the exchange simultaneously, by the same wire, of electric signals of different nature, such as of ordinary telegrams at the same time as spoken, or harmonic messages without putting the telephonic or harmonic circuit in metallic or conductive contact, with the ordinary telegraphic circuit which thus remains entirely independent.

No. 15,364. Improvements on Hame Clips.
(*Perfectionnements aux liens des attelles.*)

Edward D. Cole, Macon, Ill., U. S., 25th August, 1882; for 5 years.

Claim.—As an improved article of manufacture, the metal clip D having tangs A and A, one of which is extended to form a flat bearing, and is provided with the ears *c c* extending from its end, the screw B and encircling sleeve B¹.

No. 15,365. Improvement in Methods of Repairing Structures with Beton.
(*Perfectionnement dans les méthodes de réparer les constructions avec du béton.*)

John C. Goodridge, Jr., New York, N. Y., U. S., 25th August, 1882; for 15 years.

Claim.—1st. The method of repairing structures with beton, or concrete, by surrounding same, more or less, completely with moulds, leaving an interval between said moulds and the structure, and then

filling said interval with beton or concrete. 2nd. The method of repairing a structure, the foundation of which is defective, by surrounding or facing the defective portions with a wall, placed at a distance therefrom, and thence undermining and replacing such defective foundation piece-meal. 3rd. The method of repairing a structure and increasing its bearing surface, by incasing the same with beton or concrete. 4th. The method of repairing a pile bridge and converting the same into a pier bridge, by surrounding said piles with moulds, and incasing the same with beton or concrete. 5th. The method of filling moulds containing water, to repair structures with beton or concrete, by means of an inclined plane. 6th. The method of lightening work formed of beton or concrete, by imbedding therein while in a plastic condition, empty barrels or boxes. 7th. The method of increasing the mass of the structure formed of beton and economizing the use of the beton itself, by imbedding in the same, while in a plastic condition, barrels, boxes, or the like filled with stone or earth.

No. 15,366. Improvements on Oil Cans.
(*Perfectionnements aux bidons à huile.*)

William G. Durham, Greensborough, Ga., U. S., 25th August, 1882; for 5 years.

Claim.—1st. The combination, with the cylindrical oil can turning in bearings in the end standards of the frame, having connecting cross strips, of the flat spring, adapted to engage one of the cross strips and retain the can in an upright position. 2nd. The combination, with the frame A having end standards B B connected by longitudinal cross strips C C, of the cylindrical oil can E having bearings G G in said standards and provided with vail J and outlet spout, or tube K and on its under rear side with a flat spring L adapted to engage one of the cross strips.

No. 15,367. Improvements on Butter Workers.
(*Perfectionnements aux battes à beurre.*)

Emma E. Sully, Cascades, Que., 25th August, 1882; for 5 years.

Claim.—1st. In a butter worker having a hinged cover, or lid with folding leg to support the same when thrown back. 2nd. The combination of a butter table T having grooves G, roller or worker W, spout S, receptacle R with spout S¹ and the tub V. 3rd. The combination of a butter worker, with a suitable reservoir, or receptacle R within the dairy communicating with tubs, or other vessels V outside. 4th. An inclosed butter worker combined with a suitable receptacle, for draining inside the dairy.

No. 15,368. Improvements on Stone and Ore Crushers.
(*Perfectionnements aux machines à broyer la pierre et le minéral.*)

Samuel L. Marsden, New Haven, Ct., U. S., 26th August, 1882; for 5 years.

Claim.—1st. The combination of an upright, fixed cylindrical jaw and an opposite concave swinging jaw plate. 2nd. A fixed cylindrical jaw constructed in sections, provided with suitable devices, whereby they may be placed in, or lifted from position, and devices whereby they may be united to each other. 3rd. As a means for holding the fixed jaw down in place, the combination of the transverse key M, slotted plates M¹ and lugs *h*. 4th. A stone and ore crusher containing the following elements, a cylindrical jaw, an opposite concave jaw plate, a toggle lever with socketted head, an adjustable toggle block and adjustable lever and toggle fulcrum, or bearings. 5th. The combination, with the toggle lever O having rear head-socket *o*, of the adjustable bearings O. 6th. The combination with the toggle lever O, having face socket *r*, toggle G and swinging jaw H having rear socket S², of the adjustable toggle bearings *r*² S. 7th. The combination, with the toggle lever O, having a rear head socket O¹ and provided with adjustable bearings *o*, of the toggle block P having face socket *q* and adjustable lever fulcrum *q*².

No. 15,369. Improvements on Sewing Machines.
(*Perfectionnements aux machines à coudre.*)

The Garretson Ruffler Company, (Assignee of Thomas B. Garretson,) Oskaaloosa, Iowa, U. S., 26th August, 1882; for 5 years.

Claim.—The combination, with the presser foot A having brackets E E and rod F, of the carrier G, having set screw L and pushing blade K, plate H having slot *m*, guide strip I and the spring O.

No. 15,370. Manufacture of Paper Bags.
(*Confection des sacs en papier.*)

James C. Wilson, Montreal, Que., (Assignee of Lorenzo D. Bonner, Boston, Mass., U. S.) 26th August, 1882; (Extension of Patent No. 1944.)

No. 15,371. Improvements in the Art of Brewing Malt Liquors.
(*Perfectionnements dans l'art de brasser les liqueurs de malt.*)

Joseph F. Gent, Columbus, Ind., U. S., 26th August, 1882; for 15 years.

Claim.—The art of brewing malt liquors by producing the wort from malt, hops, and hullers corn-flakes.

No. 15,372. Improvements in the Manufacture of Waterproof Articles.
(*Perfectionnements dans la fabrication des objets imperméables.*)

William O. Callender, London, Eng., 26th August, 1882; for 15 years.