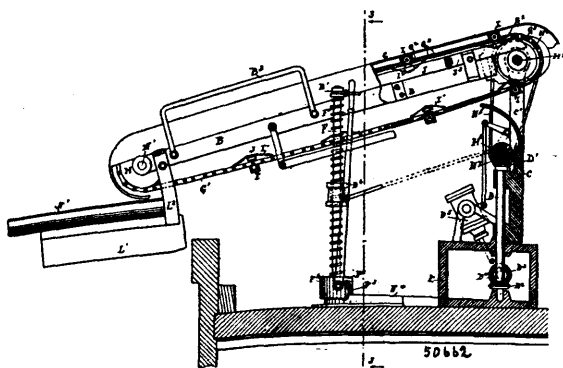


bination with a vertical drum, curved faces on its inner side communicating respectively between the adjacent ironing faces of the adjacent horizontal drums, and having a substantially vertical outer ironing face communicating with the ironing face of the end drum of said horizontal series, transfer rollers between the adjacent faces of said horizontal drums, a feeding roller opposite the outer face of said vertical drum, a delivery roller beyond the last drum of the horizontal series, and an apron passing over said feeding roller and traversing successively the outer face of said vertical drum, the opposite face of the horizontal drum in connection therewith, the curved ironing face between said drum and that adjacent to it, the transfer roller between said drums, the corresponding ironing faces and rollers of the succeeding drums, and said delivery roller, whereby said apron traverses the opposite sides of said drums, substantially as and for the purpose set forth. 9th. In machines for ironing and similar purposes, a sinuous frictional polishing ironing surface, in combination with an endless apron for carrying the goods to be ironed in contact with said surface, traversing the latter throughout all its sinuosity, substantially as and for the purpose set forth. 10th. In machines for ironing and similar purposes, the drums B¹ and B², having opposite ironing faces, the curved ironing face *e*, communicating between said faces and having the recess *m* at top, in combination with a transfer roller yieldingly mounted within said face *e*, opposite said recess *m*, and an apron traversing said ironing faces and passing over said roller, whereby when the latter yields it can move into said recess *m*, substantially as and for the purpose set forth. 11th. In machines for ironing and similar purposes, the drums B¹, B², B³ and B⁴, having ironing faces on their opposite sides, in combination with curved ironing faces *e*, communicating between the adjacent faces of adjacent drums, transfer rollers L¹, L², L³, between said drums respectively, gears N, on said transfer rollers, idlers O, meshing with said gears, and drive-pinion P, driving one of said idlers, and an apron traversing the respective ironing faces and each of said transfer rollers, whereby the driving power is applied to said apron between each of said drums, substantially as and for the purpose set forth.

No. 50,662. Device for Lifting Fishing Nets and Lines. (*Appareil pour soulever les rets et lignes.*)



Ralph Connable and Walter M. Connable, both of Peloskey, Michigan, U.S.A., 22nd November, 1895; 6 years.

Claim.—1st. An apparatus for lifting nets and lines, comprising an endless carrier and gripping devices carried by the carrier, said gripping devices being normally closed and adapted to be opened by the stress of the nets and to automatically grip the net when opened thereby, substantially as described. 2nd. An apparatus for lifting nets and lines, comprising an endless carrier, gripping devices carried by the carrier, said gripping devices being normally closed and adapted to be opened by the stress of the net and to automatically grip the net when opened thereby, and means for automatically releasing the gripping device from the net, substantially as described. 3rd. An apparatus for lifting nets and lines, by combination of an endless carrier, clamping jaws carried by the endless carrier from the point where they are clamped upon the net to the point where the free end of the net is released, by a continuous forward motion, and deposited, substantially as described. 4th. In an apparatus for lifting nets and lines, the combination of a plurality of jaws, an endless carrier for the jaws, suitable mechanism for clamping said jaws upon nets or lines as the same is drawn from the water, and suitable mechanism for releasing the grip of the said jaws at a point where the free end of the net is discharged, substantially as described. 5th. In an apparatus for lifting nets and lines, the combination with an endless carrier of gripping jaws on the said carrier, suitable mechanism for automatically closing said gripping device on the net, and carrying it forward with the carrier, means for limiting the opening of said gripping jaws a sufficient distance to receive the net only, and means for disengaging the jaws from the net at the delivery end of the carrier, substantially as described. 6th. An apparatus for lifting nets and lines, provided with gripping devices held on an endless carrier, suitable mechanism for automatically releasing said grip at the point where the free end is discharged or

deposited from the carrier, substantially as described. 7th. An apparatus for lifting nets and lines, comprising an endless carrier, and gripping devices carried by the carrier, each of such gripping devices consisting of a series of independent jaws arranged transversely of the carrier whereby the net may be gripped at one or more points and the facility with which it is gripped increased, substantially as described. 8th. In an apparatus for lifting nets and lines, the combination of a plurality of jaws, an endless support for said jaws, suitable mechanism for clamping said jaws upon the nets or lines as the same is drawn from the water, and suitable mechanism for releasing the grip of said jaws at a point where the free end of the net is discharged, substantially as described. 9th. In an apparatus for lifting nets and lines, a plurality of clamping jaws having inclined openings at their outer ends whereby the net may automatically open said jaws, a sufficient width to receive the net, an abutting surface for limiting the opening movement of the jaws, an endless carrier supporting said jaws, and suitable mechanism for clamping said jaws upon the net, substantially as described. 10th. An apparatus for lifting nets and lines, a carrier provided with a plurality of clamping jaws adapted to be opened by the stress of the nets, and a suitable mechanism for clamping the jaws upon the nets, substantially as described. 11th. In an apparatus for lifting nets and lines, a plurality of clamping jaws, a carrier supporting said clamping jaws and conveying the same in contact with the under side of the net, and carrying said net clamped to a point where the free end of the net is discharged, and means for releasing the said net, substantially as described. 12th. In an apparatus for lifting nets and lines, the combination of a plurality of clamping jaws adapted to open sufficiently to receive the net, an abutting surface to limit the opening to the required width, an endless carrier supporting said jaws, clamping devices for automatically closing said jaws, and devices for automatically releasing the same, substantially as described. 13th. In an apparatus for lifting nets and lines, the combination of a plurality of clamping jaws adapted to be opened by the stress of the nets sufficiently to receive the net, an abutting surface to limit the opening to the required width, an endless carrier supporting said jaws and conveying them in contact with the under side of the nets, clamping devices for automatically closing said jaws, and devices for automatically relieving or opening the same, substantially as described. 14th. In an apparatus for lifting nets and lines, the combination of an endless carrier, a series of clamping jaws supported by and travelling with said carrier, mechanism for clamping the net between said jaws as it is drawn from the water and conveying the same to the opposite side of the net from the said jaws, substantially as described. 15th. In an apparatus for lifting nets and lines, the combination of an endless carrier, a series of clamping jaws supported by and travelling with said carrier, mechanism for clamping the net between said jaws as it is drawn from the water, and conveying the same to the opposite side of the carrier where the free end of the net is released from said jaws automatically, substantially as described. 16th. An apparatus for lifting nets and lines, comprising a carrier frame, an endless carrier travelling in the frame, gripping devices secured on the said carrier and each comprising a plurality of jaws held loosely on a support, and an automatically controlled compressing device for closing said jaws to clamp the net or line between adjacent jaws, substantially as described. 16th. An apparatus for lifting nets and lines, comprising a pivotally and yieldingly mounted support or frame adapted to swing sidewise, an endless carrier supported by said frame, gripping devices held on the said carrier, and a guiding device near the receiving end of the said frame, to guide the lines and nets on to the said carrier and the said gripping jaws, substantially as shown and described. 18th. In an apparatus for lifting nets and lines, a plurality of suitably supported clamping jaws, one jaw provided with a groove or depression, and its corresponding jaw provided with a rib or projection to fit in the depression in its corresponding jaw for the purpose of more securely grasping the net, and an endless carrier moving said jaws from the point where the net is automatically clasped or gripped to the point where it is automatically loosened, substantially as described. 19th. In an apparatus for lifting nets and lines, an endless carrier and a plurality of clamping jaws supported on said endless carrier, each set of clamping jaws consisting of a jaw provided with a groove on its face that stands at an acute angle with the line or nets as they are drawn from the water, and its corresponding jaw provided with a rib adapted to engage with the groove on its corresponding jaw for the purpose of receiving and securely clamping the net and giving to the net a continuous forward motion from the point where the said net is grasped by the jaws to where the free end is released, substantially as described. 20th. An apparatus for lifting nets and lines, provided with a carrier frame, an endless travelling carrier mounted in the frame, gripping devices held on the said carrier and placed suitable distances apart, each gripping device comprising a transversely slidable rod, jaws held loosely on the said rod, a wheel journaled on the said rod, and rails held on the said frame and adapted to be engaged by said wheel, to impart a transverse shifting motion to the said rod, substantially as shown. 21st. An apparatus for lifting nets and lines, comprising a frame, carrier chains mounted to travel in the said chains, slats supported by the said chains, a bolt attached to and resting on the said slats, transversely extending bars attached to the said bolt and connected with the said chains, rods fitted to slide in the said bars, clamping jaws held loosely on each of the