

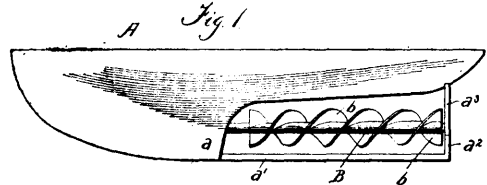
Claim.—1st. A knitting machine, provided with two needle beds co-acting, each having a combway for the reception of the same set of webbers, the combways of the first bed provided at their bottoms in the base of the bed with slideway seatings continued up one side and down the opposite side, forming a plurality of slideway seatings, detachably bearing webbers provided with needle pointed teeth, and shanked inwardly with a corresponding plurality of clear seating edges, and means located on the outside of the beds, to slide the pointed teeth into and out of the combways of the second bed and the fabric, serving to rigidly hold the needle beds in fixed relative position, and pierce and depress the fabric made on the two beds, substantially as and for the purposes set forth. 2nd. A knitting machine, provided with two needle beds co-acting, each provided with combways for the reception of the same set of webbers, and slidable webbers having needle pointed teeth mounted in the combways of the first needle bed, and means to reciprocate the needle-pointed teeth into and out of the combways of the second needle bed, whereby the webbers pierce each succeeding course of loops and depress the fabric, carrying free staple through to the back, and holding the two beds in correct alignment to each other, substantially as and for the purposes set forth. 3rd. A knitting machine, provided with two needle beds co-acting, each provided with combways containing the same set of slidable webbers, bridging over from bed to bed above the knitted loops, locking and holding the two beds in correct alignment with each other, and means to recede the webbers out of engagement with the combways of the second bed to allow of the formation and passage of new loops between the two beds, substantially as and for the purposes set forth. 4th. A knitting machine, provided with a needle bed having webber combways and recesses in its face, extending downwardly and inwardly to the rear of its needles, each of which is provided with a slideway seating, continued up one side and down the opposite side, forming a plurality of slideway seatings detachably bearing a webber shanked inwardly with corresponding plurality of clear (having no cam-foot projections) slide seating edges, and means located forward of the bed face, to operate them, substantially as and for the purpose set forth. 5th. A knitting machine, having a needle bed provided with webber combways, extending downwardly and inwardly to the rear of its needles, each of which has a plurality of oppositely posed slideway seatings, and containing webbers, each of which has an inwardly shanked body, provided with seating edges conforming to the slideway seatings mounted as to be operable from the bed face, and means forward of the bed face to operate them, substantially as and for the purposes set forth. 6th. A slidable webber, comprised of a blade having a toothed upper part, shanked inwardly to a plurality of clear (having no cam-foot projections) seating edges, said edges being on lines parallel to each other, adapted to slide in and upon the base of the needle bed, provided with a corresponding plurality of slideway seatings, and be operated by a cam located forward of the needle bed face, substantially as and for the purposes set forth. 7th. A slidable webber double-shanked inwardly from the hooked or toothed part, provided with a plurality of clear (having no cam-foot projections) seating edges on lines parallel to each other, substantially as and for the purposes set forth. 8th. A slidable web holding and piercing device, comprised of a blade having a plurality of needle pointed loop or fabric engaging parts or teeth located beneath each other on its fore part, adapted to slide in the combways of the needle bed, and means to reciprocate it, whereby the upper tooth engages the newly made loops, and the lower tooth pierces the loops of the completely formed fabric, substantially as and for the purposes set forth. 9th. A slidable webber provided with a fabric piercing tooth situated below the breast or thread drawing part, adapted to slide in the combways of a needle bed, and be reciprocated as to pierce the loops or mesh of the completely formed fabric, substantially as and for the purposes set forth. 10th. A slidable webber, the hook or tooth of which is brought to a needle or piercing point, adapted to pierce any knitted loop or thread with which it comes in contact rather than trap or cut it, substantially as and for the purposes set forth. 11th. A knitting machine, having a needle bed provided at its top with webber combways and two part or compound detachable webbers, each webber comprised of a fixing blade secured in its combways, making in the combway a webber guideway, having a plurality of slideway seatings, and a hooked movable blade slidably fitted in the guideway so made upon the fixing blade, the whole of the compound webber being detachably retained in its combway, substantially as and for the purposes set forth. 12th. A knitting machine, having provisions for piercing and depressing the fabric between co-acting beds, and for locking the two needle beds together, consisting of needle pointed toothed webbers, detachably sliding in the first bed upon a plurality of bearings in the combways, which extend downwardly and inwardly to a point in the rear of the needles, and engage the teeth of a combway, which extend downwardly and inwardly to the back of the needles of the second bed, in a manner as to be operable from the face side of the needle beds, substantially as and for the purposes set forth.

No. 68,874. Screw Propeller. (Propulseur à hélice)

William Vance, Prescott, Ontario, Canada, 2nd October, 1900; 6 years. (Filed 16th October, 1899.)

Claim.—In a vessel, substantially such as described, the combination with a hull, of a thin keel centrally disposed below the hull and

forming the rear overhang, and a screw propeller mechanism below the overhang, in rear of the keel, and having its active surfaces ex-



posed beyond the side faces of said keel so as to draw water from beneath the bow and force water rearwardly beneath the overhang, as set forth. 2nd. A vessel, substantially as described, comprising a hull, a thin keel projecting downwardly from the outline of the hull, at the median line thereof, and extending from the bow to a point approximately the center of said hull, said keel being distinct from the outline of the hull and having a solid front portion, said hull extending from the rear terminal of the keel and forming an extended overhang, and a propeller located below the overhang at the point of greatest submergence of the hull and in rear of the keel, the diameter of said propeller greatly exceeding the thickness of the keel and said propeller rotating in a direction to create by suction a motion of the water from beneath the bow toward and beneath the stern, whereby the thin keel affords minimum resistance to the passage of the water influenced by the suction of such propeller. 3rd. A vessel, substantially such as described, comprising a hull and a thin keel projecting downwardly from the outline of the hull, at the median line thereof, and extending from the bow to a point approximately the center of said hull, said keel being distinct from the outline of the hull and having a solid front portion, said hull extending from the rear terminal of said keel and forming an extended overhang, and the propellers located in rear of the keel, on opposite sides of the axis thereof, and extending beneath the overhang of the hull substantially the full length of said overhang, said propellers being arranged at the point of greatest submergence of the hull and rotating in a direction to create by suction a motion of the water from beneath the bow toward and beneath the stern, as and for the purposes described.

No. 68,875. Acetylene Gas Generator.

(Générateur de gaz acétylène.)

William Henry Payne, Camden, New Jersey, U.S.A., 2nd October, 1900; 6 years. (Filed 17th April, 1900.)

Claim.—1st. An acetylene gas generator, comprising a gas generator chamber, a water chamber of annular cross-section and supported upon the gas generator chamber, a gasometer surrounded by the water chamber and in open communication with the generator chamber, a feed pipe connecting the water chamber with the generator chamber, and two valves, one of which is located on the pipe within said water chamber and is adapted to be manually manipulated and the other is located on the feed pipe within the generator chamber, said valve provided with a stem, means adapted to move said stem in one direction, a device carrying said stem, and means for depressing said device and stem, whereby said valve is adapted to be closed and opened automatically by the rise and fall of said gasometer, substantially as and for the purposes described. 2nd. In an acetylene gas generator, the combination with a water chamber, a gas generator chamber and a gasometer, of a feed water pipe connecting the water chamber with the generator chamber and provided with two valves, one of which is located on the pipe within the water chamber and is adapted to be manually manipulated and the other is located on the pipe within the generator chamber and provided with a stem, a spring adapted to move said stem in one direction, a yoke carrying said stem and extending into the gasometer under tension of said spring and means carried by said gasometer for depressing said yoke and stem against the tension of said spring when said gasometer falls within said water chamber, substantially as and for the purposes described. 3rd. In an acetylene gas generator, provided with a gas generator chamber, a water chamber and a gasometer surrounded by said water chamber and in open communication with the generator chamber, a feed pipe connecting the water chamber with the generator chamber, a valve