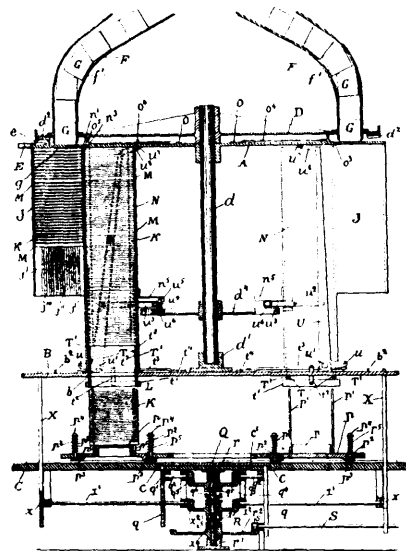


receptacles for receiving the cutting discs and means for holding the receptacles in an endwise position while the fish are being split and for turning the receptacles at right angles while they are being cut in uniform dimensions by the rearwardly placed discs as specified. 2nd. In a machine for first splitting the fish and then for cutting them into the desired lengths, having a suitable bed arranged at an incline, pulleys or wheels mounted at each end thereof, with their upper peripheries arranged tangent to the upper plane of the bed, belts taking round said wheels, yokes connecting the belt together at intervals, and fish carrying receptacles arranged on said yokes, and means for passing each of the said receptacles along in an endwise position beneath a rotating disc 24 and for turning the receptacle at right angles and holding it in such position while being passed beneath a plurality of rotating discs 26, whereby the fish will be cut up, as specified. 3rd. In a machine of the class described, consisting of a bed arranged on a sloping plane, belt wheels mounted on each end thereof, chain belts taking therearound, receptacles or fish carrying devices 16 secured at intervals on said belts, in combination with a rotating disc 24 suitably mounted on a frame E above the bed, of a plurality of rotating discs 26 suitably mounted in a frame F above the rear part of the machine, and means for holding the fish carrying receptacles in an endwise position and receive the disc 24 in a slot therein, and for turning the said receptacles at right angles while being passed beneath the discs 26, as set forth. 4th. In a fish cutting machine, having a suitable bed and fish cutting discs arranged thereover, chain belts arranged parallel and taking round wheels at opposite ends of the bed, yokes 15 secured to said chains at intervals, bearers 45 for supporting the chains or belts on a plane just below the upper side of the bed, a fence 19 passing beneath the bed, a frame 20 connecting with the said fence and supported by arms connecting with the rear side of the bed frame D, and a groove 20<sup>a</sup> in the outer upper side of the frame 20, in combination with fish carrying receptacles 16 pivoted on the yokes 15, right angle pieces 18 integral with the said receptacles, having their outer edges depending, one downwardly depending angle of which is received in the said slot 20<sup>a</sup> in the frame 20, and the downwardly depending edge of the other side of the angle is received in a groove 21<sup>b</sup> in a frame 21 on the opposite side of the bed at a point to the rear of the frame 20, whereby the said receptacles are first passed for a distance over the bed lengthwise and then are turned at right angles thereto and passed along in that position, for the purposes specified. 5th. In a machine of the class described, having endless belts passing over a bed with rotary cutter discs arranged thereover, yokes 15 arranged at intervals along the said belts, receptacles 16 pivotally fixed in said yokes, slots in said receptacles endwise and crosswise for the passage of said cutter discs, and means for passing the receptacles for a distance along the bed in an endwise position and for turning the receptacles to a right angled position and passing them along so for a distance along the bed, as and for the purposes specified. 6th. In a machine for splitting and cutting fish, having a bed with endless chain belts 14 taking thereover, and a frame E supporting a shaft 23 with a rotary cutter disc 24 mounted thereon, and a frame F with a shaft 25 carrying a plurality of rotary cutter discs 26 thereon, fish carrying receptacles 16 arranged at intervals along the belts 14, and means for passing the said receptacles for a distance over the bed in an endwise position beneath the cutting disc 24 and for turning the same at right angles and holding them so while being passed beneath the cutting discs 26 and then for reversing them to an endwise position, substantially as and for the purposes set forth. 7th. In a fish cutting machine, having a bed with belts taking thereover and cutting discs arranged in frames E and F a suitable distance above the bed, yokes 15 secured to the belts and connecting them together at intervals, bosses in said yokes, fish holding receptacles pivoted or movably secured in apertures in said yokes, turning devices, 18 integral with the said receptacles, which consist of right angles having their edges projected downwards, as 18<sup>a</sup>, and fixed frames 20 and 21 arranged on opposite sides of the track of the fish holding receptacles, and grooves 20<sup>a</sup> and 21<sup>a</sup> in said frame for receiving the downwardly projected edges of the right angles 18, as specified. 8th. A fish holding receptacle 16 for the purposes set forth, having a lengthwise slot 16<sup>a</sup> and transverse slots 16<sup>b</sup>, and means for passing the same lengthwise for a distance over a suitable bed beneath a rotating cutting disc, and for a distance over the bed in a transverse position beneath a plurality of rotating cutter discs, as specified. 9th. In a machine of the class described, having a bed, wheels mounted at each end thereof, and a belt or belts 14 taking therearound, a cutting disc 24 arranged over the bed and a plurality of like cutting discs 26 arranged over near the rear end of the bed and at approximately the same plane as the disc 24 with respect to the bed, and means for imparting a high speed to the discs 24 and 26 and a slower speed to the belts 14, in combination with fish holding receptacles 16 secured in a pivotal manner to yokes connecting the said chains together and right angle pieces 18 secured beneath and integral with the said receptacles, of a fence 19 passing beneath the bed for engaging one of the sides of each of the angles 18, and controlling the fish holding receptacles in lengthwise position, and a frame 20 having a groove 20 connecting with the fence 19 and extending beneath the cutting disc 24, and of a frame 21 on the opposite side of the bed, having a cam 21<sup>a</sup> for engaging the other side of each of the right angle pieces, and for turning the fish holding receptacles, and a groove 21<sup>a</sup> in said frame for holding them

so while being passed beneath the cutting discs 26, and of a cam 22<sup>a</sup> on a frame supporting the rear end of the fence for engaging said angle pieces, as and for the purposes set forth. 10th. A machine of the class described, having a bed with wheels mounted at each end thereof, and belts taking therearound, bearers 45 for supporting the upper side of the belts at an even plane while passing over the bed, and frames 20 and 21 arranged diagonally from each other on each side of the bed and extending over the said belts, the undersides of these frames being on an even plane, and grooves 20<sup>a</sup> and 21<sup>b</sup> on the upper sides of the same, yokes 15 connecting the belts together at intervals, fish holding receptacles arranged in bosses on the yokes, which receptacles have members which engage in the grooves 20<sup>a</sup> and 21<sup>b</sup> alternately, and widened or flattened portions 15<sup>b</sup> on the opposite sides of the bosses on the upper surfaces of the yokes, which engage the undersides of the plane surface of the frames 20 and 21 alternately and respectively. 11th. In a machine of the class described, in combination with a rotary cutting disc 24 secured on a shaft 23 suitably mounted in a frame, a bifurked arm 41 lying on opposite sides of the said cutting disc, the said forks having horizontal portions which act as cleaners for the disc, and a depending, movable arm 43 pivoted to a forwardly projecting arm 42 integral with the bifurked arm 41, said arm 43 being tapered and divided by a slot 43<sup>a</sup>, substantially as and for the purposes set forth. 12th. In a machine for splitting and cutting fish and means of adjusting a plurality of cutting discs 26 at various distances apart upon a shaft without removing same, consisting of distance sleeves 26<sup>a</sup> having openings on their sides for receiving the said shaft and pins 28 for holding them on said shaft on each side of the cutting discs, substantially as and for the purposes set forth. 13th. In a machine for splitting fish, having a suitable bed, wheels mounted at each end thereof, a belt taking round said wheels, fish carrying receptacles 16 arranged on said belt and made to move in a lengthwise position, and a slot 16<sup>a</sup> placed lengthwise of said receptacles, and a cutting disc 24 arranged in a suitable frame over the bed, said disc made to pass through the said slot in each receptacle 16 as it is passed along, and means for imparting movement to the belt carrying the receptacles, and to the cutting disc, as and for the purpose set forth. 14th. Fish-holding receptacles 16 of fish-like form having the upper part of the ends open, and having a longitudinal slot 16<sup>a</sup> and transverse slots or openings 16<sup>b</sup> dividing the walls of said receptacle, for the passage of cutting or cleaning devices

**No. 63,241. Machine for Making and Framing Match Splints.** (*Machine pour faire et encadrer les éclisses d'allumettes.*)



63241

Marcus Solomon Levé, Fruitvale, California, U.S.A., 10th June, 1899; 6 years. (Filed 16th July, 1898.)

**Claim.**—1st. In a machine of the character described, a splint material carrying chute set upon a wheel with its bottom opening on a radial line, in combination with a table located in a plane parallel with said wheel, a row of scoring knives arranged also on a radiating line on said table, and a slicing knife back of said scoring knives, the said slicing knife being set so as to coincide with the back end of said chute as it passes said slicing knife, whereby the severing of all the splints in a row is completed simultaneously along the whole line, substantially as set forth. 2nd. In a machine of the character described, the combination of a stationary cutting apparatus, a suitably apertured table upon which the same is mounted, mechanism for carrying the wooden blocks in succession against the cutting apparatus over the table, an automatic framing