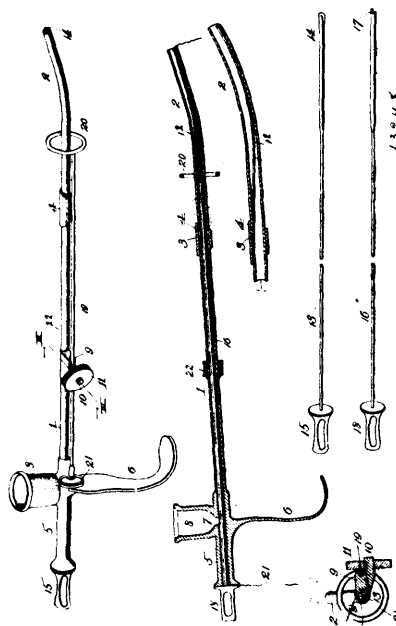


parts 17<sup>c</sup>, and the other rods 17<sup>k</sup> and 17<sup>l</sup>, carrying sectional swinging groups, substantially as shown and described. 5th. In a match making machine the combination of the match blank hoppers 1, match blank propelling side bars 5, the groups of saws 8, and the match splint guide plates 61 and 62, through which the saws operate, the separate, four sided, scalloped splint guide tubes 12, which are continuous from the saw guide plates 61 and 62 to the main conveyor 17, and the conveyor 17, substantially as shown and described. 6th. In a match making machine the main conveyor as constructed with individual match holding grippers having parallel fixed gripping facets 17<sup>c</sup>, opposite to parallel swinging gripping washers 17<sup>b</sup>, alternated with match separators 17<sup>m</sup>, which have the projecting part 17<sup>n</sup> passing between and past the lines of matches, the separating washers 17<sup>b</sup>, the rigid perforated arms 17<sup>h</sup>, rods 17<sup>d</sup> and 17<sup>e</sup>, in the fixed jaws, the rods 17<sup>k</sup> and 17<sup>l</sup>, in the swinging jaws, the spring 17<sup>i</sup>, and the rods 17<sup>h</sup>, connecting the inner links of the chain, all arranged in a double right line throughout the entire breadth of the group section for the purpose of receiving the groups of matches in a single row and depositing them in the same order, substantially as shown and described. 7th. In a match making machine, the combination of an intermittently moved main conveyor constructed with groups of parallel fixed gripping facets 17<sup>c</sup> opposed to groups of parallel swinging gripping washers 17<sup>b</sup> alternated with corresponding groups of match separators 17<sup>m</sup>, which have the projecting parts 17<sup>n</sup>, passing between and past the grouped lines of matches, the separating washers 17<sup>b</sup>, the rigid arms 17<sup>h</sup> perforated to hold the rods 17<sup>e</sup> and 17<sup>d</sup>, which support the fixed jaws, the rods 17<sup>k</sup> and 17<sup>l</sup> in the swinging jaw which is pivoted on the rods 17<sup>h</sup> extending to and connecting the inner links of the chain, the match splint stop 17<sup>s</sup>, the jaw closing spring 17<sup>i</sup>, the jaw opening trip 17<sup>l</sup>, the cross bar and detent 22, the chutes 25, said chutes being supported by said cross bar and diverging in graduated order from the group lines of the main conveyor to the several box trains upon the box conveyor, and the intermittently moved box conveyor made to rest at the instant of contact of 17<sup>l</sup> and detent 22 and consequent disengagement and dropping of the several groups of matches, substantially as shown and described. 8th. In a match machine conveyor, the combination of the two chains constructed with armed links 17<sup>b</sup> as described, the connecting and gripper supporting rods 17<sup>c</sup>, 17<sup>d</sup>, and 17<sup>h</sup>, the section or group rods 17<sup>k</sup> and 17<sup>l</sup> extending between and connecting the swinging arms 17<sup>l</sup> on 17<sup>h</sup> and the gripping parts, substantially as shown and described. 9th. In a match making machine, the straight cross bar 22 having the series of chutes 25 diverging regularly and laterally each way from a central line to the several lines of travel of the several trains of boxes, in combination with an intermittent group depositing mechanism and a box carrier beneath, having a correspondingly intermittent movement, substantially as shown and described. 10th. In a match making machine, the combination of the main intermittently moved conveyor constructed with downwardly dependent and respectively rigid and movable gripping members, the trip and the movable members, the transverse straight bar 22 beneath bearing the series of divergent chutes, a stationary trip operator, and the intermittently moved box conveyor beneath the chutes, made to rest at the instant of contact of trip and trip operator and consequent disengagement and dropping of the groups of matches, substantially as shown and described. 11th. In a match making machine, a straight row of receiving hoppers 25, the individuals of which correspond in position to the lines of movement of the several trains of match groups, and having their lower or delivery ends divergent to correspond to the lines of travel of several transversely moving trains of receiving boxes, in combination with the main and intermittently moving general conveyor 17 and the intermittently actuated and transversely moving box carrier 27, substantially as shown and described. 12th. In combination with the main group depositing conveyor 17, the transverse conveyor 27 of the several trains of boxes, the uniformly spaced and the deep toothed ratchet wheels 30 and 31 having the upper and lower pointed pawl 34 and the intermutual co operative impelling mechanism and the guide chute mechanism, substantially as shown and described. 13th. In a match making machine the combination of the following named parts, viz., the frame A having reciprocating longitudinal bar mounted on each side, a series of hoppers having propelling bottoms connected to said side bars, a series of match splint dividers next to the propelling bottoms, succeeding single tube guides having pairs of printing roll open scallops, said single tube guides, i.e., constructed with sides, bottom and top, being continuous from the dividers to the main conveyor, the main conveyor and the eccentric driving mechanism, substantially as shown and described. 14th. In a match making machine, for the purpose of forcing, dividing, timing and conducting the match material in proper positions to the main conveyor, the combinations of the described hopper bottom and reciprocating mechanism, the dividers and the single tube guides, scalloped and twisted, substantially as shown and described. 15th. In a match making machine, to be connected with a printing apparatus, the combination of the main conveyor constructed to carry groups of match splints, correspondingly arranged groups of single tube splint guides, made continuous from the match blank dividers to said conveyor, and constructed with pairs of open print roll admitting scallops, and having intervening straight and twisted closed sections, the side reciprocating bars, connected match blank driving hopper bottoms, and succeeding dividers, all arranged and

co-operating substantially as shown and described. 16th. In a match making machine, the combination of the following co-operative parts, viz.: the single tube separate guides of match shaped section having consecutively, direct, scalloped, twisted, and direct scalloped sections, stationary hoppers whose bottoms are match blank propelling platens, reciprocating side bars to which these are attached, the blank dividers and racks upon said side bars for simultaneously operating any printing mechanism to be connected therewith, substantially as and for the purpose set forth. 17th. In a match making machine, the combination of the gangs of blank dividers of saws, single tube guides made continuous from dividers to main conveyor, constructed with four sides, but having a series of open scallops both in their top and in their bottom for admitting printing rolls, the match blank propelling hopper bottoms, preceding the dividers, the side bars 5 for moving the said hopper bottoms, and the connecting rods 4<sup>a</sup>, shaft 3, pulley 2, and co-operative parts, substantially as shown and described. 18th. The combination of the eccentric propelled reciprocating side bars having attached racks for operating upper and lower printing rolls, the attached impelling hopper bottoms which push match splint blanks to the dividers and push the splints beyond the match dividers, the single tube guides complete with top, bottom and sides, and openings to admit printing rolls to the match splints, and having alternating straight and twisted sections and extending to the main conveyor, said conveyor, supports and operating mechanism, substantially as shown and described. 19th. In a match machine, the combination of a match conveyor and a match box conveyor moving at right angles to each other in different planes, and a match chute having a match receiving opening adapted to receive a group of matches transversely arranged with reference to the line of movement of the match conveyor, and a delivery opening substantially parallel to the line of movement of the match box conveyor, substantially as described. 20th. The independent, continuous single tube guides (i.e., constructed complete with top, bottom and sides in one) extending from the dividers of match blanks to the main conveyor, and having scalloped direct sections resting against the supporting table 11, and bearer 60 and an intermediate twisted section, whereby provision is made for combination with a printing mechanism, the dividers and impelling operative mechanism, substantially as shown and described. 21st. In a match making machine, the separate, single tube guides of match shaped section, continuous from the dividers of saws to the main conveyor, constructed with open, scalloped, straight and intermediate twisted sections, substantially as shown and described.

#### No. 63,248. Surgical Dressing Packer.

(Machine à emballer les appareils de pansement chirurgical.)



Elmore Oscar Smith and Aretus See McCleary, both of Kansas City, Missouri, U.S.A., 13th June, 1899; 6 years. (Filed 24th January, 1899.)

*Claim.*—1st. A surgical dressing packer, comprising a tube and a plunger fitting therein, and of somewhat greater length, consisting of a rod having an enlarged and approximately wedge-shaped front end, substantially as and for the purpose described. 2nd. A surgical dressing packer, comprising a tube provided with a guard to limit the insertion of the tube, a plunger fitting therein, and of somewhat greater length, consisting of a rod having an enlarged