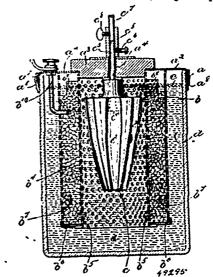
to the path of each cleat, alternating in its action with said feed mechanism, to fasten the sheet, by successive operations, to the cleat at intervals in the direction longitudinally of the cleat, and means adjustable with the staple drivers for guiding strengthening frame, drive shaft, staple forming and driving machines mounted wires with the sheet across the staple drivers, substantially as and for the purpose set forth. Oth, In a machine for forming lox, guides, and intermittent feed for the material to be stapled, of particles of the continuous particles. for the purpose set forth. 6th, in a macmine for forming 100x blanks by fastening sheets and strengthening wires to reinforcing cleats, the combination of guides for the cleats, intermittent feed mechanism for advancing the cleats longitudinally in their guides and with a sheet through the machine, an intermittingly actuated staple driver and a guide for a strengthening wire adjacent to the path of each cleat, the staple drivers alternating in their action with the said feed mechanism to fasten the strengthening wires and them to account to the strengthening wires and them. sheet, by successive operations, to the cleat at intervals in the direction longitudinally of the cleat, substantially as described. 7th. In a machine for forming boy blanks by fastening sheets and strengthening wires to reinforce cleats, the combination with intermittingly actuated staple drivers, of guides for the lateral edges of the sheet, guides for cleats intermediate of the said sheet guides, guides for strengthening wires at the staple drivers and intermittent feed mechamisin alternating in its action with the said staple drivers for advancing the cleats and sheets in their guides with the strengthening wires across the staple drivers, substantially as and for the purpose set forth. Sth. In a machine for forming box blanks by fastening sheets and strengthening wires to reinforcing cleats, the combination of intermittent feed mechanism for advancing the cleats longitudinally with a sheet through the machine, an intermittingly actuated staple driver adjacent to the path of each cleat, alternating in its action with said feed mechanism, to fasten the strengthening wires and sheet, by successive operations, to the cleat at intervals in the direction longitudinally of the cleat, a strengthening wire guide at each staple driver, guides for the lateral edges of the sheet and guides for the cleats adjustable with relation to the said sheet guides according to the width of the cleats and thickness of the sheet, substantially as and for the purpose set forth. 9th. In a machine for forming box blanks by fastening sheets and strengthening wires to reinforcing cleats, the combination of an adjustable bed frame mounted in guides with means for raising and lowering it therein, guides for the cleats on the said bed frame, intermittent feed mechanism for advancing the cleats longitudinally with the sheet through said guides, an intermittingly actuated staple driver adjacent to the justle of each cleat alternating in its action with said feed mechanism, to cach cleat afternating in its action with said feed mechanism, to faster the strengthening wires and strengthening wire guide at each staple driver, suctantally as and for the purpose set forth. 10th. In a machine for forming hot blacks by fastening sheets and strengthening wires to reinforcing cleats, the combination with intermittingly actuated staple drivers, such as the combination with intermittingly actuated staple drivers, substantially as described. 11th. In a machine for forming box blacks by fastening sheets and steptiment of the sheet and cleats in their guides longitudinally actuated staple drivers, the said feed rollers alternating in their action with the said staple drivers, substantially as described. 11th. In a machine for forming box blanks by fastening sheets to reinforcing cleats, the combination with intermittingly actuated staple drivers, of guides for the sheet and cleats, intermittent feed rollers alternating in their action with the said staple drivers to act to the over, and a shiding frame, provided with means for gripping the cleats through the sheets, and operative to engage the same, when initially fed to the machine, slide them to the said feed rollers and them to the said feed rollers and them to the said feed rollers and said feed rollers and said feed rollers and them release them, aubstantially as described. 12th. In a machine for forming box blanks by fastening sheets and strengthening wires to reinforcing cleats, intermitting actuated strengthening wires and strengthening wires and strengthening wires and sheet, by successive operations of the stap drivers, are fastened to the cleats, intermitting actuated strengthening wires to reinforcing cleats, substantially as described. 13th. In a machine for forming fasten the strengthening wires and sheets, by successive operations, to the cleat at intervals in the direction longitudinally of the cleat, initially advancing a strengthening wire across each staple driver before the first staple is driven into a cleat, substantially as and for the purpose set forth. 14th. The combination with the main-frame, of a driver and drive-shaft mounted thereon, clutch mechanism between the said driver and shaft, shipping mechanism on the frame for engaging and releasing the clutch members to start and stop the machine, staple forming and driving machines mounted on the frame and actuated from the said drive shaft, guides at said staple machines for strengthening wires y, strengthening wire engaging and advancing means, and strengthening wire severing means at and advancing means, and strengthening wire severing means at gear wheels, and a reciprocating cross-head carrying apring-pressed the said guides normally inactive and brought into action by more pawls adapted to engage the strands of the said chain to impart a ment of said shipping mechanism, to disengage the said clutched travelling motion to the chain in one direction on reciprocating the members, and a feed for the material to be stapled actuated from said cross-head, substantially as shown and described. 2nd. In a

rotary spools on the main frame for the strengthening wires y, and staple wires x, and brakes for the said spools engaged by said wires and operating when the wires are at rest normally to engage the spools, and under pressure against them exerted by the wires when drawn upon, to release the spools, substantially as and for the purpose set forth.

No. 49,295. Galvanic Battery. (Pile galvanique.)



No. 49,296. Motor- (Noteur.)

John C. Lucneburg, Lakefield, Minnesota, U.S.A., 21st June, 185; 6 years.

Claim. 1st. In a motor, the combination with a main driving shaft and gear wheels for imparting a rotary motion to the said shaft, of a travelling sprocket chain for imparting motion to the said