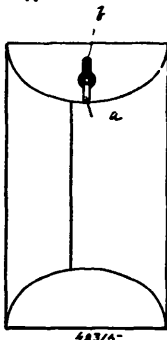


said drum, a cutter *b*, located about opposite the centre of the drum, and yielding guards conforming to the drum and extending between the hopper and the cutter *b*, a second cutter *C*, beneath the cutter *b*, a pressure bar *b'*, between the vertically disposed *b* and *C*, and a pressure bar *C'*, substantially as and for the purpose described 6th. In a stave-rounding machine, the combination with the vertically disposed cutter heads *b* and *C*, constructed to round one face of the blank staves, of a housing inclosing the said cutter heads and adapted to be connected through a suitable conveyor with a suction fan, substantially as and for the purpose set forth. 6th. In a stave-rounding machine, the combination with a guide *H*, and a carrier, of a pulley supporting the said carrier and provided with an annular rim, and an elastic band surrounding the said rim, substantially as and for the purpose set forth. 7th. In a stave-rounding machine, the combination with a guide *H*, and an endless carrier comprising a chain, of a pulley to support the said chain provided with sprocket-teeth to engage with the links of said chain, and having a rim, and an elastic band fitted around said rim, substantially as set forth. 8th. In a machine, of the herein described character, the combination with a drum having a series of faces, and having projections between the said faces, of a hopper located above the said drum and closed on one side and end only, and having a space between the said drum and the lower edge of the hopper, substantially as and for the purpose set forth. 9th. The combination with an endless carrier, and supports for the said carrier, of a track beneath the lower portion of the said carrier and ogee shaped guide forming a continuation of the said track and spring arms *J*, *J'*, conforming to the upper portion of the said ogee shaped guide *H*, and extending in opposite direction from an intermediate support, the outer ends of the said arms being free, substantially as and for the purpose set forth. 10th. The combination with the drum *F*, having grooves formed therein near each end, and a hopper, of an endless carrier composed of chains which are adapted to travel in the said grooves and come flush with the face of the said drum, and provided with projections which are adapted to engage with and carry the stave blanks forward, substantially as set forth. 11th. The combination with an endless carrier, supports *F* and *G*, for the said endless carrier cutters for rounding one face of the stave blanks, the guide *H*, conforming to the support *G*, and oppositely inclined mandrels arranged within the plane of the support *G*, and provided with chamfering and crozing cutters to operate on the inner or straight side of the said stave blanks in opposition to the guide *H*, substantially as set forth. 12th. A machine of the character hereinbefore set forth, comprising the following elements which are combined and arranged to operate substantially in the manner hereinbefore set forth, the same consisting of an endless carrier comprising two endless chains, a drum having a series of faces and having projections between the faces, and having annular grooves near each end of the drum to receive the said chains, pulleys to support the opposite end of the said chains, each pulley having sprocket-teeth, an annular rim, and an elastic band around the said rim, a cutter head to form notches in the opposite edges of the stave blanks, a second cutter to remove that portion of the blank between the notches and round one face of the stave blank, pressure bars, one on each side of the latter cutter and connected with weighted levers which hold the said pressure bars to their work, a track beneath the lower portion of the carrier and ogee shaped guide at the delivery end of the machine, spring arms conforming to the upper portion of the said guide, a hopper to receive the stave blanks, spring guards between said hopper and the first of the two cutters, a housing inclosing the said cutters and adapted to be connected with a suction fan, and mandrels inclining in opposite directions and provided with chamfering and crozing cutters, substantially as and for the purpose set forth.

No. 48,315. Envelope and Box Fastener.

(*Envelope et attache de boîtes.*)



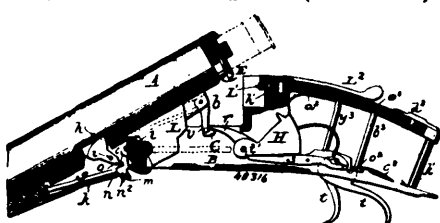
44376-

Benjamin L. Armstrong, New London, assignee of Frank H. Allen, Norwich, both of Connecticut, U.S.A., 1st March, 1895; 6 years.

Claim.—1st. In combination, with an envelope or box, a swivelled

tongue secured to said envelope or box and adapted to interlock with the perforated flap or lid of the same, substantially as specified. 2nd. In combination, with the body and perforated overlapping flap or lid of a box or envelope, a tongue of suitable material secured to said body by an eyelet, said tongue being adapted to lie within said perforation, when the flap or lid is closed, and to be swung on the eyelet to lock said body and flap together, all substantially as specified.

No. 48,316. Breech-loading Gun. (*Fusil à bascule.*)



Joseph Rider, Newark, Ohio, U.S.A., 2nd March, 1895; 6 years.

Claim.—1st. A frame for drop barrel guns, having its front projecting arm, breech, or recoil shoulder, top, side walls, central partition and upper tank formed integral of a single piece of metal, in combination with a trigger plate *D*, prolonged rearward to form a lower tang, said tange being held rigidly in relation to each other at their rear ends by a screw and interposed sleeve *E*, substantially as described. 2nd. A thumb lever *L*, a locking latch *L'* arranged to be moved thereby, and a safety or trigger locking device arranged to be thrown out of the locking position by the movement of the thumb lever and latch in the opening or closing of the barrel, substantially as described. 3rd. The hammer *H* having a vertical notch or bearing on the rear side of its tumbler, in combination with the curved main spring *S*, provided at its front end with a lip *p*, arranged to bear against the tumbler below its axis when the hammer delivers its blow, and cause a rebound of the hammer, substantially as described. 4th. The combination of the hammer *H*, main spring *S* provided with a lip *p*, trigger *t*, and sear *s*, all arranged to operate substantially as described, whereby the one spring is made to operate all of said parts and also cause the hammer to rebound, as set forth. 5th. The combination, in a drop barrel gun, of a hammer provided with a cocking arm *r*, a movable cocking bar secured to the barrel or lug and provided with a projection to engage with the said cocking arm, and having a stem or bolt arranged to project at the front of the lug so that the placing in position of the fore-end will throw the cocking bar back into position to engage with the cocking arm, and a spring arranged to move the cocking bar out of the cocking position upon the removal of the fore-end, substantially as described. 6th. A fore-end cartridge ejecting device in which the ejector hammer is caused to first start the shell by a positive movement, and then to eject the shell by action of the ejector spring, substantially as set forth. 7th. An automatic shell ejector, in which the ejector spring is first put under tension and then released during the dropping of the barrel, whereby said ejector spring is freed from tension at all times except during the dropping movement of the barrel, substantially as described. 8th. In a break-down gun, the combination of a pivoted ejector hammer located in the fore-end and arranged to bear normally against the front end of the extractor stem, a spring arranged to be put under tension by the tipping of the barrels and operate the ejector hammer when released, and a sliding bar in the gun frame adapted to be operated by the gun hammer when fired and lock the ejector hammer, substantially as described, whereby the ejector hammer is caused to operate by positive force on the extractor during the initial movement of the barrels, and by the spring during the completion of the movement, as herein set forth.

No. 48,317. Powder and Fuse Warmer.

(*Réchaud pour la poudre et les fusées.*)

Albert Price, Maryville, Montana, U.S.A., 2nd March, 1895; 6 years.

Claim.—1st. A powder and fuse warmer, substantially as described, comprising the case having the powder compartment, the fuse compartment and the heating compartment, and provided with openings forming communications between said compartments and the metallic candle holder, substantially as set forth. 2nd. A powder and fuse warmer, substantially as described, having its heating chamber or compartment provided with a metallic candle holder having an imperforated top, and also, provided with side end bottom plates, substantially as set forth. 3rd. In a warmer, substantially as described, the combination with the heater and the warming compartments of the metallic candle holder arranged in the heating compartment, and having a top and bottom and side end plates, and having supporting legs, whereby to support its bottom plate above the bottom of the casing, substantially as set forth. 4th. The