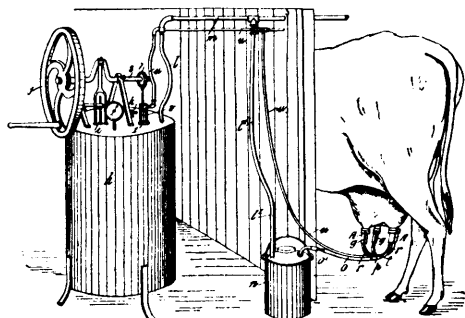


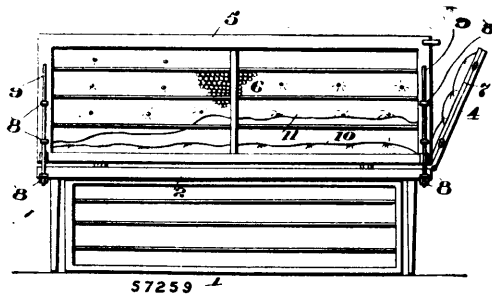
connecting the annular space between said flexible lining and the rigid outer tube of the teat cup, by pipes to the main vacuum tank



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of the milking machine, valve mechanism being employed, whereby communication is alternately established between said tank, and the annular space in the teat cup, and between said annular space and the atmosphere, substantially as specified. 2nd. A pulsating teat cup constructed of a flexible rubber tube *a* between and connected to the non-flexible tubes *b, d*, a non-flexible covering ring *c*, forming an outer casing for tube *a*, and an air-pipe *g*, communicating with the main air pipe of the machine substantially as and for the purposes herein described and illustrated in the accompanying drawings. 3rd. The combination in apparatus for producing in the teat cups of milking machines of a valve for alternately opening communication between the vacuum tank and the annular space of the teat cup and between such annular space and the atmosphere, such valve being operated by an eccentric upon the crank shaft of the air pump, substantially as herein specified and illustrated. 4th. In combination the air pump crank shaft 8, eccentric 7, strap and connecting rod 9, piston valve 6, casing 1, having ports 3, 5, opening into pipe 4, the tube *u*, and teat cup *A*, substantially as and for the purposes herein described and illustrated in the accompanying drawings. 5th. The combination in apparatus for producing pulsation in the teat cups of milking machines, of the air branch piece *t*, arranged above and connected to the milk pipe branch piece *p*, the several branches upon the branch pieces *t* and *p* being arranged with their openings in one plane, substantially as and for the purposes herein specified and illustrated. 6th. The combination and arrangement of parts comprising my improved apparatus for producing pulsation in the teat cups of milking machines, the whole constructed, arranged, and operating, substantially as and for the purposes herein described and illustrated in the accompanying drawings.

No. 57,259. Convertible Couch. (Canapé convertible.)



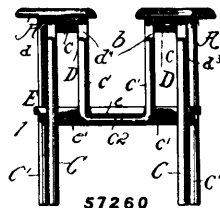
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Jane Geddes, Rutland, Vermont, U.S.A., 1st September, 1897; 6 years. (Filed 7th August, 1897.)

Claim.—1st. In a couch, the combination with the top having supporting legs and an inclined head section, a spring-mattress attached to the couch, a frame hinged to one side of the top and provided with a spring-mattress, sliding bars carried by the hinged section and adapted to engage the top of the couch, and a head section hinged to the main head section so as to fold thereon, the parts being constructed and organized, substantially as shown and described. 2nd. A convertible couch, comprising a stationary top supported upon legs, and spring-mattress or bed-bottom connected to the top, and a stationary head section inclined from one end of said top, together with a frame hinged to one side of the top and having a spring-mattress or bed-bottom, a supplemental head section pivoted to the stationary head section, bolts in sliding engagement with the hinged section, and additional supports for the hinged section, to provide a piece of furniture which can be readily changed from a couch to a bed or vice versa, substantially as shown and described. 3rd. In a convertible couch, the combination with the top supported by legs or equivalent devices, a spring-mattress or bed-bottom attached to the top, an inclined head section rigidly attached to one end of the top, a frame hinged to one side of the top and having sliding bars in engagement therewith, a supple-

mental head section hinged to the main head section, means for supporting the hinged frame when extended, and bedding or cushions made up of two sections hinged to each other and adapted to rest upon the sections, the parts being constructed and susceptible of arrangement, substantially as shown and described. 4th. In a convertible couch, the combination with the top supported by legs, a spring-mattress or bed-bottom attached to the top, an inclined head section rigidly attached to one end of the top, a frame hinged to one side of the top and having sliding bars in engagement therewith, a supplemental head section hinged to the main head section, means for supporting the hinged frame when extended, and bedding or cushions made up of two sections hinged to each other and adapted to rest upon the springs of the sections, together with a frame or drawer in sliding engagement with the main section of the couch to receive the bed clothes, the parts being constructed and organized substantially as shown and described.

No. 57,260. Commode. (Commode.)



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Bishop Adams Hall, Pine Bluff, Arkansas, U.S.A., 1st September, 1897; 6 years. (Filed 9th August, 1897.)

Claim.—1st. In a commode, the combination of a seat having the usual large opening through it and a passage extending out from one end of said opening and dividing the seat at that end, two pairs of legs, each pair connected together by means of pivots extending inward, one from the upper end of each leg, a pair of downwardly-extending hangers, one hanger connected with the inner end of each pivot, and a cross-piece connecting the lower ends of the hangers, means fastening said legs to said seat, a shelf supported by said hangers and keeping said legs spaced apart, and means limiting the outward movement of the legs substantially as described. 2nd. In a commode, the combination of a seat divided longitudinally into two parts completely separated by the usual large opening and two passages leading out from opposite ends of said opening, two pairs of legs, means fastening each pair of legs to both parts of said seat, and means passing across below said seat and connecting the legs of each pair together, and holding the parts of said seat apart and in position, substantially as described. 3rd. In a commode, the combination of a divided seat, longitudinally into two parts, completely separated by the usual large opening, and two passages extending out from the opposite ends of said opening, two pairs of legs, means hinging each pair of legs to both parts of the seat, means passing across below the seat and connecting each pair of legs together and holding the parts of the seat apart and in position, means limiting the spreading of the two pairs of legs away from each other and means keeping them spaced apart substantially as described. 4th. In a commode, a divided seat composed of parts *A, A'*, two pairs of legs, means connecting the legs of each pair together, means hinging each pair of legs to both parts of the seat, means limiting the spreading of the legs and a shelf keeping the legs spaced apart substantially as described. 5th. In a commode, a divided seat composed of parts *A* and *A'*, two pairs of legs, means connecting the legs of each pair together, means hinging each pair of legs to both parts of the seat, means limiting the spreading of the legs, a shelf keeping said legs spread apart and means adjustably securing the shelf in position.

No. 57,261. Fire Lighter. (Allumoir.)

Frederick Meyers, Emden, Illinois, U.S.A., 1st September, 1897; 6 years. (Filed 9th August, 1897.)

Claim.—1st. In a fire-lighter, a frame or support adjustably mounted upon a standard, a lever pivoted on the frame and turned up at one end, such upturned end having a notch cut therein, the opposite end of said lever being free, but adapted to be operated by suitable means for the purpose set forth, an arm or trigger *H* pivoted at one end to the frame or support, its free end engaging the aforesaid lever by its notch, a spring secured at one end to the frame or support, a pin carried on the opposite end of said spring and engaging the arm or trigger *H*, a revoluble rod having bearings in the said frame or support, an arm bent at right angles to said rod to engage the pin in said trigger, a coil-spring surrounding the said rod for operating same, a friction device on the free end of said rod, a match-holder secured to the frame or support and adapted to hold a match in contact with the friction device and a torch adapted to be lighted by said match, substantially as shown and described. 2nd. In automatic fire-lighters, a frame or support mounted on a standard, a clock mounted in said frame or support, a lever pivoted on the frame and turned up at one of its ends, such upturned end having