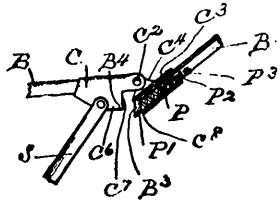
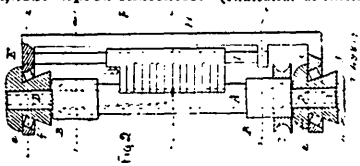
by a folding hinge and severally provided with stretchers, the combination with the outer rib piece movable longitudinally through its hinge section, and a spring for actuating the movable rib piece in one direction, of a fixed catch on the other hinge-section, the catch



48812,

and the inner end of the movable rib-piece having relatively-inclined engaging faces, whereby the rib piece yieldingly passes the catch and engages therewith to lock the hinge when the hinge-sections are extended, substantially as described. 2nd. In a folding umbrella having two-piece ribs connected by a folding hinge and severally provided with stretchers, the combination with the outer rib-piece movable longitudinally through its hinge-section, a spring for actuating the movable rib-piece in one direction, and a transverse back stop on such hinge-section, of a transverse back-stop, and a locking catch on the outer hinge-section, substantially as described.

No. 48,813. Speed Indicator. (*Indicateur de vitesse.*)



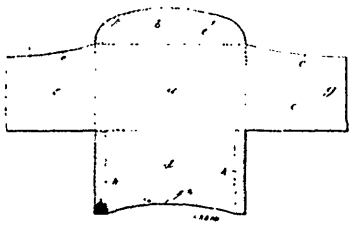
James Maylor jr. and George Thomas McLauthlin, both of Boston, Massachusetts, U.S.A., 1st May, 1895; 6 years.

Claim.—1st. A sight speed indicator consisting of a vertically revolving transparent tube, a contained fluid, gudgeons B, B, having the solid extending journals D, D, and the grooved pulley thereon in combination with the open frame F, bearing boxes E, E, and rubber rings *f*, *f*, as shown and described. 2nd. The combination with a vertical revolving transparent tube, a contained fluid, gudgeons having extending journals and a grooved pulley, of the yielding bearing boxes and open frame as shown and described. 3rd. In a sight speed indicator, the revolving parts consisting of the glass tube, the contained fluid, gudgeons having the extending journals and grooved pulley, all secured and moving together integrally and suitably mounted in the bearing boxes and frame so as to be well exposed, in combination with the rod I and the vertically and horizontally adjustable index plate, as shown and described. 4th. The bearing boxes E, E, having the shoulders *e*, *e*, and conical shaped extension, the frame F, having the opening also conical, in combination with an intervening rubber or yielding ring as described, and for the purpose set forth. 5th. In a speed indicator, the combination with a supported and revolving glass tube containing an indicating fluid; of an adjustable index plate supported on the rod I, said plate having a central projection or equivalent to serve a normal mark, and graduation marks above and below it as herein shown and described. 6th. In a speed indicator the combination with an index plate mounted upon a vertical rod, said plate tapering to an edge so that the face of same may be set at a tangent to the glass tube, and means to secure the same at proper elevation, of the supported and integral revolving parts as herein set forth.

No. 48,814. Envelope. (*Enveloppe.*)

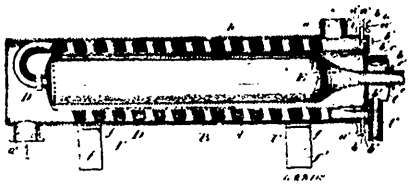
Elder Sherrell Vance, John J. McClellan, Eugene W. McClellan, William L. McClellan, all of Donoho, and William L. Kemp, jr., Kempville, all of Tennessee, U.S.A., 1st May, 1895; 6 years.

Claim.—The herein described mail and express envelope having a blank comprising a rectangular body portion *a*, lateral integral flaps *c* and *c*, the flap *c* being of less length than the flap *c*, and said flaps *c* and *c* being gummed respectively upon their inner and outer surfaces as shown at *g* and *f*, whereby when the lateral flaps are folded parallel with the inner surfaces of the main or body portion they may be secured together by means of said gummed surfaces, an upper semi-elliptical flap *b* adapted to fold over the upper edges of the lateral flaps and provided with a gummed inner surface *i* to adhere thereto, and a lower or closing flap *d* of a width approximately equal to the main or body portion, and cut away at its free edge to expose a portion of the surface of the flap *b*, said flap *d* being gummed at its lateral edges as at *h*, *h*^{1}, the lateral flaps being gummed upon their outer surfaces adjacent to their lower surface as at *f*^{1}, *g*^{1}, and the flap *b* being gummed upon its outer



surface as shown at *k*, whereby the lower or closing flap *d* is secured by adhesive material at its inner, outer and lateral edges, substantially as specified.

No. 48,815. Wort Cooler. (*Appareil à refroidir le moût.*)



Henry Emil Deckebach, Cincinnati, Ohio, U.S.A., 2nd May, 1895; 6 years.

Claim.—1st. The combination, in a wort cooler, of the outer and inner cylinders separated from each other to form jackets for the passage of the wort and the cooling liquid, a spiral coil within the wort jacket for the cooling liquid, said coil and the walls of the jacket being in close proximity to retard the movement of the wort through the jacket and keep it in contact with the cooling surfaces, the central cylinder for the cooling liquid, communicating with the coil, induction and eduction pipes communicating with the wort jacket, and similar pipes to receive the cooling liquid into the device and discharge it therefrom, substantially as shown and described. 2nd. The combination of the outer cylinder, having closed ends, an inner cylinder forming, with the outer cylinder, a closed jacket for the passage of wort, a central cylinder separated from the cylinder forming the inner wall of the wort jacket, having a reduced neck passed to the outside of the cooler, and separated from the surrounding cylinder, but communicating with it through perforations in the inner end of said central cylinder, the inner and intermediate cylinders together forming a jacket for the cooling liquid, the cooling coil connected to the end of the intermediate cylinder and coiled around in the wort jacket, said coils in proximity to the walls of the jacket to compel the wort to travel in a spiral path, an induction pipe at one end of the said wort jacket, and an eduction pipe at the opposite end, to connect with the pipe leading to the fermenting tuns, a pipe to introduce cooling liquid to the inner cylinder, and a discharge pipe leading outside of the cooler for said cooling liquid after it has passed through the inner cylinder and coil, substantially as shown and described. 3rd. In a wort cooler, the combination of the outer case or cylinder A, having induction branch *a*, and eduction branch *a*^{1}, the flanged ring *a*^{2}, at one end of said cylinder, the inner cylinder B, having flanged ring *b*, for coupling the inner and outer cylinders, and closing the jacketed space between them, the spiral coil D, connected to the inner end of the cylinder B, coiled around it towards the opposite end, and having a branch passing to the outside of the cooler, the inner cylinder E, having a reduced neck passing through the end of the cooler to receive the pipe conveying the cooling liquids, said cylinder E, being open at the inner end and bearing against the end of the intermediate cylinder B, and having its end perforated to pass portions of the cooling liquid from the cylinder E, around the space in the jacket between it and the cylinder B, the head *b*^{1}, closing the end of cylinder B, and perforated to pass the cooling liquid from the jacketed space between the cylinders E, and B, substantially as shown and described. 4th. In a wort cooler, the combination of the outer cylinder, having induction pipe at one end and eduction pipe at the other, flanged ring around the open end of said cylinder, an inner cylinder having flanged ring closing the jacket between the said cylinder and the outer cylinder, bolts and nuts for detachably securing the two cylinders together, perforated heads secured to the front end of said intermediate cylinder, a central cylinder having reduced neck passing centrally through said head, having its inner end open to bear against the concavo-convex end of the surrounding cylinder and perforations communicating with the