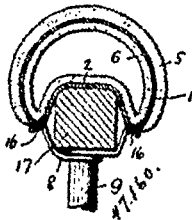


boiler. 5th. The steam nozzle S, on the forcing side of the injector having a regulating screw plug T, to reduce the outlet, as set forth.

**No. 47,160. Pneumatic Tire. (Bandage pneumatique.)**

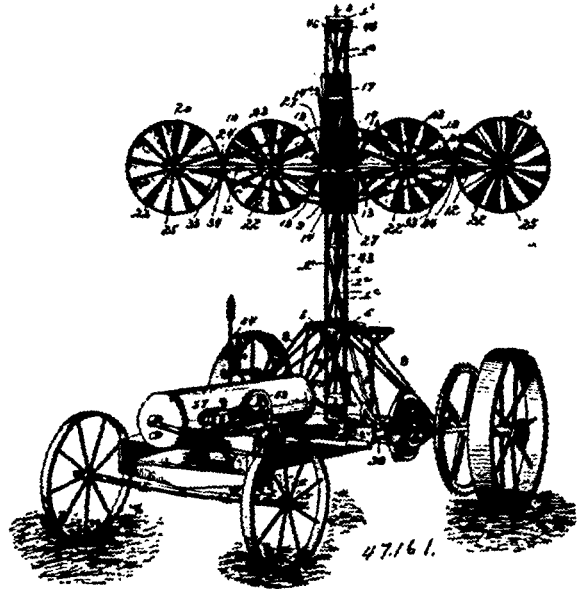


George Charles Moore, Easthampton, Massachusetts, U.S.A., 4th October, 1894; 6 years.

**Claim.**—1st. A lining fabric consisting of a self-shaped tube composed of two unequal longitudinal segments, the large segment having its greatest length at midwidth thereof, and its minimum length in its marginal portions at both sides of such length, the margins of such segment constituting oppositely located portions of least fixed length for the tubular fabric, and the small segment connecting the said margins, substantially as described. 2nd. A lining fabric consisting of a self-shaped tube composed of two unequal longitudinal segments, the large segment having its greatest length at midwidth thereof, and its minimum length in its marginal portions at both sides of such length, the margins of such segment constituting oppositely located portions of least fixed length for the tubular fabric, and the small segment connecting the said margins, it containing a greater length of fullness at midwidth than adjacent to the said margins, substantially as described. 3rd. A lining fabric consisting of a self-shaped tube composed of two unequal longitudinal segments, the large segment having its greatest length at midwidth thereof, and its minimum length in its marginal portions at both sides of such length, the margins of such segment constituting oppositely located portions of least fixed length for the tubular fabric, and the small segment connecting the said margins, it having its greatest length at midwidth thereof, and being progressively shorter in the successive portions intermediate such length and the said margins, substantially as described. 4th. A shoe or cover for pneumatic tires, having a fabric foundation or lining consisting of a self shaped tube composed of two unequal longitudinal segments, the large segment being located in the outer or tread portion of the shoe or cover and the small segment in the inner portion of the shoe or cover which contacts with a wheel-rim or felly, the said large segment having its greatest length at midwidth thereof, and being progressively shorter in the portions at both sides of such length, the margins of such segment constituting oppositely located portions at least fixed length for the tubular fabric, and the said small segment connecting the said margins, substantially as described. 5th. A shoe or cover for pneumatic tires, having a fabric foundation or lining consisting of a self-shaped tube composed of two unequal longitudinal segments, the larger segment being located in the outer or tread portion of the shoe or cover and the small segment in the inner portion of the shoe or cover, which contacts with a wheel-rim or felly, the said large segment having its greatest length at midwidth thereof and being progressively shorter in the portions at both sides of such length, the margins of such segment constituting oppositely located portions of least fixed length for the tubular fabric, and the said small segment connecting the said margins, it containing a greater length or fullness at midwidth than adjacent to the said margins, substantially as described. 6th. A shoe or cover for pneumatic tires, having a fabric foundation or lining consisting of a self-shaped tube composed of two unequal longitudinal segments, the large segment being located in the outer or tread portion of the shoe or cover, and the small segment in the inner portion of the shoe or cover which contacts with a wheel-rim or felly, the said large segment having its greatest length at midwidth thereof, and being progressively shorter in the portions at both sides of such length, the margins of such segment constituting oppositely located portions of least fixed length for the tubular fabric, and the said small segment connecting the said margins, it having its greatest length at midwidth thereof and being progressively shorter in the portions at both sides of such length intermediate, such length and the said margins, substantially as described. 7th. The combination with the rim or felly of a wheel, of a pneumatic tire, having a shoe or cover which is crescent-shaped in cross-section and composed of two unequal segments joined at their margins, of which the large segment constitutes the face or tread portion of the shoe or cover, and the small segment lies against the surface of the rim or felly with the sides of the shoe or cover extending inwardly by the sides of the rim or felly, and detachable securing devices engaging with the said sides of the shoe or cover and holding it removably in place on the rim or felly, substantially as described. 8th. The combination with the

rim or felly of a wheel, of a pneumatic tire having a shoe or cover which is crescent-shaped in cross-section and composed of two unequal segments joined at their margins, of which the large segment constitutes the face or tread portion of the shoe or cover and the small segment lies against the surface of the rim or felly with the sides of the shoe or cover extending inwardly by the sides of the rim or felly, wires at opposite sides of the rim of the wheel in engagement with the said sides of the shoe or cover, and detachable securing devices engaging with the said wires and the wheel and removably holding the shoe or cover in place on the rim or felly, substantially as described. 9th. The shoe or cover for pneumatic tires consisting of a tubular lining or foundation fabric and an elastic covering or surfacing, the said lining having one end thereof inserted into the other to form a lap-joint extending entirely around the shoe or cover and secured therein except at the inner side, where such ends, in addition to being overlapped, are left disconnected from each other to permit of the insertion of the air-tube, substantially as described.

**No. 47,161. Windmill. (Moulin à vent.)**



Arey Van Winegarden, Anthony, Kansas, U.S.A., 4th October, 1894; 6 years.

**Claim.**—1st. In a windmill, the combination of a vertically disposed rotating standard constructed of metal and composed of angle corner bars, top and bottom plates connecting the ends of the corner bars and crossed-braces arranged in vertical series and connecting the corner bars, a vertically adjustable frame slidably mounted thereon, a suitable shaft journaled in suitable bearings of and rotating on the standard and with the same, wind-wheels mounted on the frame, and gearing connecting the wind-wheels with the vertical shaft, substantially as described. 2nd. In a windmill, the combination of a vertically disposed rotating standard, wind-wheels, a vertical shaft rotating with the standard, a frame pivotally mounted on the standard and carrying the wind-wheels and adapted to turn to carry the wind-wheels in a horizontal position, and gearing connecting the wind-wheels with the shaft, substantially as described. 3rd. In a windmill, the combination of a vertically disposed rotating standard, a vertically movable bracket slidably mounted thereon, vertical wind-wheels, a vertical shaft rotating with the standard, a horizontally disposed frame carrying the wind-wheel and pivotally mounted on the bracket and adapted to turn to carry the wind-wheel from a vertical to a horizontal position, and gearing connecting the wind-wheel to the shaft, substantially as described. 4th. In a windmill, the combination of a vertically disposed rotating standard, a sliding bracket vertically movable thereon and provided with a horizontal shaft, vertically disposed wheels journaled on the shaft and arranged at opposite sides of the bracket, a horizontally disposed frame mounted on the wheels and turning with them, a vertical shaft rotating with the standard, vertically disposed wind-wheels mounted on the frame and connected with the vertical shaft, and means for operating the first mentioned wheels and for locking them against accidental turning, substantially as described. 5th. In a windmill, the combination of a vertically disposed rotating standard, a sliding bracket vertically movable thereon, vertically disposed adjusting wheels journaled on the bracket and arranged at opposite sides thereof, one of the wheels being provided with peripheral notches, a pawl mounted on the bracket and arranged to engage the notches for securing the wheels in their adjustment, a vertical shaft rotating with the standard, the horizontal frame, vertically disposed wind-wheels mounted on the horizontal frame and connected with the vertical shaft, and the handle for rotating the