tionary tubular die pr. and the reciprocating male outting die nz. all constructed, arranged and adapted to cut away portions of the metal from seeks side of the wire, to shape the sides of the nail, and to ever the sail from the body of the wire. Ath. The combination we dego or key of fitted to and movable in a bearing at right angles to the die pr. and adapted to clamp said die to its socket in any degree periton. 6th. In combination with the adjustable dies Hr. Dr. of the die pr. and adapted to clamp said die to its socket in any degree periton. 6th. The combination of the die-block H. provided with the grooves m and nr. nr. the dies Hr and Hs fitted to said grooves and nr. nr. in, the dies Hr and Hs fitted to said grooves mad the adjusting screws mr. mr. cach provided with the collar a siquitable cutting dies Hr. Hr, cach provided with the evitoal slot o. the bifurcated plate of. the tubular die pr. and the reciprocating that the cutting dies Hr. Hr, cach provided with the vertical slot o. the bifurcated plate of. the tubular die pr. and the reciprocating that the cutting dies Hr. Hr, cach provided with the nail driving passage os. oz. the adjustable dies Hr. Hr, the tubular die pr. the plunger I carrying the male cutting diesoribed. Sh. The combination of the die block H provided with the nail driving passage os. oz. the adjustable dies Hr. Hr, the tubular die pr. the plunger I carrying the male cutting diesoribed. Sh. The combination of the diesoribed with the nail driving the same, the combination of a pair of feed rolls arranged to gripe the wire. a ratchet wheel sand mounted upon and movable about an axis outside of or eccentric to said feed rolls arranged to gripe the wire. The combination of the part with the said said feed roll shaft, a second two-armed lever move it about its pivot, and through it to move the prince of the present of the present diesoribed. Blut he com

described. 21st. The combination of the horn L, the rod Le, the spring Le, the frame M mounted upon the fixed tubular pivot t, the clamping plunger v1. v2, the toggle links v4, v5, the bar P¹ and the cam P, all arranged and adapted to operate substantially as described. 22nd. The combination of the horn L, the supporting rod L3, the spring L4, the frame M, the pivot bolt t, the clamping plunger v1. v2, the toggle links v4, v5, the lever v5, the adjusting screw w, the plunger w1, the spring w2, the stop w, the adjusting screw w, the purposes described. 23rd. In a machine for cutting nails from a continuous wire and driving the same, a reel or drum for carrying the coil of wire, having a detachable head secured in position by a threaded thumb-nut, and provided with a central oblong opening of a shape and size to permit the free passage of said thumb-nut through the same, when turned to a certain position and allow the wings of said nut to bear upon said head to clamp it to the drum when said nut is turned a quarter of a revolution or less from said other position, substantially as described. 24th. The combination with a nail-driving and severing mechanism, the driving shaft B, a recessed hub secured firmly upon said shaft, and provided with inner periphery with the circumferential groove v2, the stationary hub A5, provided with the eccentric surface v5, and the abutment m2 and the ball x2 all arranged and adapted to operate as and for the purposes described.

No. 26,014. Telephone Transmitter.

(Transmetteur Téléphonique.)

The Bell Telephone Company, Montreal, Que. (assignee of Egra T Gilliland, New York, N. Y., U. S.), 16th February, 1887; (Vears.

The Bell Telephone Company, Montreal, Que. (assignee of Erra T. Gilliland, New York, N. Y., U. S.), 16th February, 1887; 5 years.

Claim.—Ist. In a telephone transmitter, a horisontal diaphragm controlling the oircuit varying medium, which is located thereon, combined with a downwardly projecting tube or passage for directing the air waves impinge and from which they are directly deflected to the diaphragm. 2nd. The combination, in a telephone transmitter, of a fixed horisontal diaphragm upon which the ourrent varying medium rests, and a downwardly-projecting tube or passage, the interior wall of which remote from the operator is substantially as plane surface and is fixed as an angle with the diaphragm, whereby sound waves are deflected therefrom directly on said diaphragm. 3rd. The combination, in a telephone transmitter, of a fixed horisontal diaphragm for vibrating the ourrent varying medium resting thereon, and a downwardly-projecting tube or passage elliptical in cross-section, the interior side or wall remote from the speaker, being substantially a plane surface. 4th. A telephone transmitter, supported at the free end of a ringed arm, adjustably with respect to its distance from a given point or object, combined with means such that the movement of the arm to vary the distance attomatically preserves the relative position of the transmitter with respect to the given point of object unchanged. 5th. The combination of a telephone transmitter, proted upon the free end of a hinged arm, and a mechanical connection between the said transmitter, and a fixed support, whereby the movement of the transmitter to vary its distance from a stationary object automatically preserves the relative position therefore the said transmitter, and a fixed support, and a bar enclosed in said arm and independently projection therefore unchanged. 6th. The combination of a telephone transmitter, a helphone transmitter, a mechanical connection between the transmitter may be said transmitter and to a fixed support, and a said prone t

No. 26,015. Shield for Street Car Drivers. (Abat-Vent pour Conducteurs de Chars Urbains.)

John E. Gardner and Benjamin Sutton, Hamilton, Ont., 16th February, 1887; 5 years.

Claim.—In a shield for protecting street car drivers from storms and severe weather, the combination of a semicular shield or protector B, made of the most suitable material and having a sloping overhanging roof of sheet metal attached to roof of platform of car, and with the sloping lower part B also of sheet metal and provided internally with lugs c2, for the purpose of securing the same to dashboard, the windows c, as shown, the elongated aperture D for the reins, and a street railway car A, substantially as and for the purpose hereinbefore set forth.