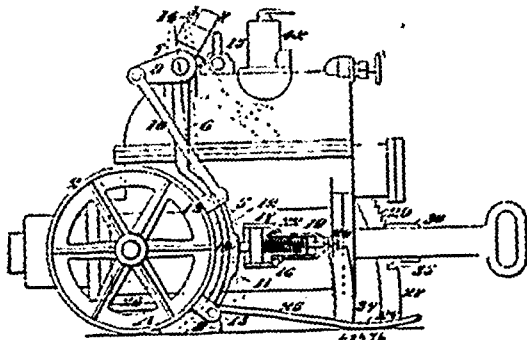


3rd. In a mining machine, having wheels resting upon a support, a fixed and a movable brake-shoe connected to the lower ends of hangers, a shaft to which the hangers are secured, a lever on the shaft, provided with a pawl adapted to engage with a lug on one of said hangers, an arm connecting with said lever, a rod connecting the arm to said movable shoe, and means for applying pressure to the shoes, substantially as set forth. 4th. In a mining machine,



having wheels and a brake-shoe, an auxiliary cylinder and piston for applying pressure to said shoe to cause the shoe to bear on one of said wheels, said auxiliary cylinder communicating with the main cylinder of the machine or its supply port, so that as the tool advances the brake-shoes will be applied, substantially as set forth. 5th. In a mining machine, having wheels and a brake-shoe, an auxiliary cylinder and piston for applying pressure to said shoe to cause the shoe to bear on one of said wheels, and a spring located behind said piston, substantially as and for the purpose set forth. 6th. In a mining machine, having wheels resting on a support, a fixed and a movable brake-shoe supported on hangers connected together by a shaft or rod, means for raising and lowering said movable shoe, and an auxiliary cylinder and piston for applying pressure to said shoes, said piston bearing against said movable shoe, substantially as and for the purpose set forth. 7th. In combination with a mining machine having a single pair of supporting wheels, a shoe for forming a third support for the machine, substantially as set forth. 8th. In combination with a mining machine having a single pair of supporting wheels, a spring shoe secured to the body of the machine and forming a third support back of said wheels, substantially as set forth. 9th. In combination, with a mining machine having a single pair of supporting wheels, a support back of said wheels, and an adjustable connection between said support and the body of the machine, substantially as set forth. 10th. In combination, with a mining machine having a single pair of supporting wheels, a support back of said wheels, and a pawl and ratchet connection between the body of the machine and said support, substantially as and for the purpose set forth. 11th. In combination, with a mining machine having a single pair of supporting wheels, a spring shoe secured to the body of the machine and extending back of said wheels, a ratchet-bar secured to the free end of said shoe, and a movable dog mounted on one of the handles of the machine and adapted to engage said ratchet-bar, substantially as set forth. 12th. In combination, with a mining machine having a single pair of supporting wheels, a shoe secured to the body of the machine and extending back of said wheels, and an adjustable connection between the free end of said shoe and the body of the machine, substantially as set forth. 13th. In a mining machine having a single pair of supporting wheels, the combination of a spring plate secured to the body of the machine, a ratchet-bar secured to said plate and having an elongated notch 17, and a dog secured to one of the handles of the machine, and adapted to engage said ratchet bar and said notch, substantially as and for the purpose set forth. 14th. In combination with a mining machine having a single pair of supporting wheels, a shoe secured to the body of the machine, a ratchet-bar secured to the free end of the shoe, a guide plate 37 secured to the shoe, and a dog secured to one of the handles of the machine and adapted to engage said ratchet-bar, substantially as set forth. 15th. In a mining machine, the combination of a valve 41, housing 42, stem 44, having a head 45, spring 46, nut 47, means for keeping the nut from turning, and a stem engaging said nut and provided with means by which it may be turned, substantially as set forth.

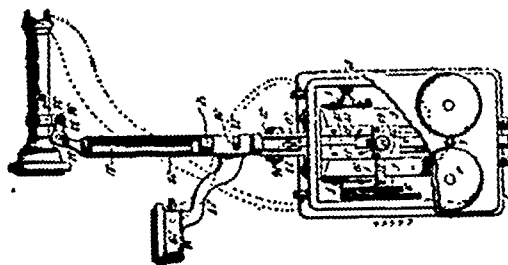
No. 48,597. Telephonic Apparatus.

(Appareil téléphonique.)

Norval Landon Burchell, Washington City, Columbia, U.S.A.,
3rd April, 1895; 6 years.

Claim.—1st. In a telephone, a pivoted arm adapted to vibrate in a vertical plane and provided with a supporting-arm extended in the same axial line, and having a lateral bracket-arm carrying the transmitter, and a support for the receiver at or near the end of the supporting-arm, the latter being capable of a limited rotary or swivelling movement upon its own axis, to shift the transmitter to

either side of the supporting arm and to give a corresponding adjustment to the receiver, whereby the latter may be applied to either ear, substantially as described. 2nd. In a telephone, the combination with an arm pivoted to vibrate in a vertical plane, of a supporting-arm extended in the same axial line and pro-



vided with a lateral bracket-arm carrying the transmitter, and an extension-arm capable of prolongation and substantially in the axial line of the supporting-arm, and having an attachment for the receiver, the said supporting-arm having a limited rotary, or swivelling movement upon its own axis, to shift the transmitter to either side of the same and to give a corresponding adjustment to the receiver, whereby the latter may be applied to either ear, substantially as described. 3rd. In a telephone, the combination with a pivoted arm adapted to vibrate in a vertical plane, of a supporting-arm having its axis coinciding with that of the pivoted arm which enters its end, said supporting-arm having a transverse slot to receive a pin rigidly set in the pivoted arm to allow a limited rotary adjustment in the common axial line, a transmitter mounted on a rigid arm projecting laterally from the supporting-arm, and a receiver at or near the end of the same, whereby the receiver may be adjusted to either ear and the transmitter brought upon either side of the arm, substantially as described. 4th. In a telephone, the combination with a pivoted arm of a supporting-arm capable of a limited rotary adjustment thereon and having a lateral arm supporting the transmitter, a receiver on the end of said supporting-arm, and a magneto mechanism the armature of which is revolved by the vibration of said pivoted arm, substantially as described. 5th. In a telephone, the combination with a pivoted arm supporting a transmitter and a receiver, of a magneto mechanism operated by said arm and supporting the same at different angles by the resistance to rotation of its armature, substantially as described. 6th. In a telephone, the combination, with a pivoted arm supporting one or more of the parts of the telephone of a magneto mechanism operated by said arm and supporting the latter at different angles by the resistance which the armature offers to rotation due to its cutting the lines of force of the magnetic field, substantially as described. 7th. In a telephone, the combination, with a pivoted arm carrying a receiver and transmitter of a magneto mechanism, a multiplying train of gears operating the armature, a toothed-bar engaging the initial gear of the train and pivotally connected to the pivoted arm, an electric circuit for the magneto including the bell-coils, receiving and transmitting circuits, a short circuit for the magneto, brushes operated by the pivoted arm to cut the magneto-call out and the receiver and transmitter into circuit with the line, and a circuit-controller which normally completes the short circuit of the magneto, and *vice versa*, substantially as described. 8th. In a telephone, the combination, with a pivoted arm supporting a receiver and transmitter of a magneto mechanism means for operating the armature thereof by said arm, a bell circuit, a short circuit for the magneto, a transmitter and a receiver circuit and a circuit controller to cut out the short circuit, substantially as described. 9th. In a telephone, the combination, with a pivoted arm carrying a transmitter and receiver, of a magneto mechanism, bell-coils excited thereby, means for operating the armature of the magneto by the vibration of the pivoted arm, circuits for the bell, and for the magneto, a short circuit for the magneto, transmitter and receiver circuits, a circuit controller having a push button and spindle carrying a conducting washer which makes and breaks the short circuit, parallel contact-strips one thereof being divided into two parts, one part connected in the transmitter circuit and the other in the short circuit of the magneto, and a bridge-contact having brushes sweeping the parallel strips as the pivoted arm vibrates, substantially as described. 10th. In a telephone, the combination, with a pivoted arm carrying the transmitter and receiver, of a sliding switch operated by said arm, circuits for the transmitter and receiver and for the generator supplying current to the bell-coils, a short circuit for said generator, and parallel contact strips on which the sliding switch moves, said strips being connected in the separate circuits and one of said strips having a break to enable the switch to cut the bell-coils, out and the receiver and transmitter in, and *vice versa*, substantially as described.

No. 48,598. Candle Extinguisher.

(Eteignoir de chandelles.)

Daniel Curran, Indianapolis, Indiana, U.S.A., 3rd April, 1895; 6 years.

Claim.—1st. In a candle extinguisher, the handle A provided