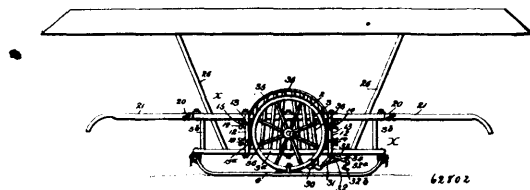


working face being in position with its longitudinal area disposed obliquely transverse of the line of its working movement, and the combination adapted for yielding to permit the work-members to be moved, during the operation, for shifting the plane of the working faces, substantially as described. 3rd. A tool of the character indicated, comprising in combination, a carrier, a plurality of work-members having each an outer working face, and means carried by the carrier, holding the work-members in circular series, with the said working faces disposed outwardly and forming collectively, an approximately circular circumferential plane, each work-member being in position with its longitudinal area disposed obliquely transverse of the line of its working movement, the combination being adapted for yielding to permit the work-members to be moved inwardly, during operation, for shifting the plane of the working face, and the relative arrangements of the combination operating to cause the said movements of the work-members inwardly to take place in paths or lines of movement approximately at right angles to the axis of said circumferential plane, substantially as described. 4th. A tool of the character indicated, comprising, in combination, a carrier, a plurality of work-members having each an outer working face, and means carried by the carrier, for holding the work-members in series one after another, with said working faces disposed outwardly, each working face being disposed obliquely transverse of the line of its working movement and the combination adapted for yielding to permit the work-members to be moved inwardly, during operation, for shifting the plane of the working face, and stop contrivances arranged for limiting the amount of said movement outwardly, substantially as described. 6th. A tool of the character indicated, comprising, in combination, a carrier, a plurality of work-members having each a grooved outer working face, and means carried by the carrier, holding the work-members in circular series, with the said working faces disposed outwardly, and forming collectively an approximately circular circumferential plane, each work-member being in position with the groove in its said working face disposed obliquely transverse of the line of its working movement, and the combination adapted for yielding to permit the work-members to be moved, during operation, for shifting the plane of the working face, substantially as described. 7th. A tool of the character indicated, comprising, in combination, a carrier, a plurality of work-members having each an outer working face carrying the ribbed or like angular formation, and means carried by the carrier for holding the work-members in circular series with the said working faces disposed outwardly and collectively from an approximately circular circumferential plane, each work-member being in position with the said angular formation disposed obliquely transverse of the line of its forward movement, and the combination adapted for yielding to permit the work-members to be moved inwardly, during operation, for shifting the plane of the working face, substantially as described. 8th. A tool of the character indicated, comprising, in combination, a carrier, a plurality of work-members having each an outer working face, and means carried by the carrier for holding the work-members in circular series with the working faces disposed outwardly and collectively forming an approximately circular circumferential plane, and the combination adapted for yielding to permit of the work-members rocking in direction of the line of working movement, substantially as described. 9th. A tool of the character indicated, comprising, in combination, a carrier, a plurality of work-members having each an outer working face, and means carried by the carrier for holding the work-members in circular series, with the working faces disposed outwardly and collectively forming an approximately circular circumferential plane, and the combination adapted for yielding to permit the work-members to be moved inwardly and rocked longitudinally, substantially as described. 10th. A tool of the character indicated, comprising, in combination, a carrier, a plurality of independent work-members having each an outer working face of less distance transversely than the transverse or width distance of the tool, and means carried by the carrier, and holding the work-members in circular series, with said working face disposed outwardly and collectively forming an approximately circular circumferential plane, each working face being positioned with its longitudinal axis obliquely transverse to the line of its working movement, and the combination adapted for yielding to permit the work-members to be moved, during operation, for shifting the plane of the working face, substantially as described. 11th. A tool of the character indicated, comprising, in combination, a carrier, a plurality of independent work-members having each an oblong outer working face of less distance transversely throughout its length than the transverse or width distance of the tool, and means carried by the carrier, holding the work-members in circular series, with said working faces disposed outwardly and collectively forming an approximately circular circumferential plane, each working face being in position with its longitudinal axis obliquely transverse to the line of its working movement, and the combination

adapted for yielding to permit the work-members to be moved, during operation, for shifting the plane of the working face, substantially as described. 12th. A tool of the character indicated, comprising, in combination, a carrier, a plurality of independent work-members having each an outer working face of less distance transversely than the transverse or width distance of the tool, and means carried by the carrier, and holding the work-members in circular series with said working faces disposed outwardly and collectively forming an approximately circular circumferential plane, each working face being positioned with its longitudinal axis obliquely transverse to the line of its working movement, the combination being adapted for yielding to permit the work-members to be moved, during operation, for shifting the plane of the working face, and the relative arrangement of the combination operating to cause the said movement of the work-members to take place in a path of line of movement approximately at right angles to the axis of said carrier, substantially as described. 13th. A tool of the character indicated, comprising, in combination, a carrier, a plurality of work-members having each an outer working face, and means carried by the carrier, holding the work-members one after another in circular series, and side by side transversely, whereby the said working faces are disposed outwardly and forming collectively an approximately circular circumferential plane, a plurality of working faces being included in the transverse or width section of the plane, and the combination being adapted for yielding to permit the work-members to be moved, during operation, for shifting the plane of the working face, substantially as described. 14th. A tool of the character indicated, comprising, in combination, a carrier, a plurality of work-members having each an outer working face, and means carried by the carrier, holding the work-members one after another in circular series and side by side transversely whereby the said work faces are disposed outwardly and forming collectively a substantially circular and circumferential plane, and a plurality of the working faces being included in the longitudinally and also the transverse section of the said plane and the combination adapted for yielding to permit the work-members to be moved, during the operation, for shifting the plane of the working faces, substantially as described. 15th. A tool of the character indicated, comprising, in combination, a carrier, a plurality of independent acting work-members, constructed with working faces and arranged for operation and movement inwardly, substantially as described, combined with means for resting and gauging the position of the work relatively to the working faces, substantially as described. 16th. A tool of the character indicated, comprising, a plurality of independently acting work-members, constructed with working faces and arranged for operation and movement inwardly, substantially as described, combined with means for resting and gauging the position of the work relatively to the working faces, the combination operating for resting the work in position with the axis of the heel in direction oblique to the axis of the carrier, substantially as described. 17th. A tool of the character indicated, in combination, a carrier, a plurality of work-members, having each an outer working face, and means carried by the carrier, holding the work-members in circular series with the said working faces disposed outwardly, and collectively forming an approximately circular circumferential plane, with open spaces between the members, and the combination adapted for yielding to permit the work-members to be moved during operation, for shifting the plane of the working face, combined with means for circulating air artificially through the said open spaces, substantially as described.

#### No. 62,802. Prospecting Wheel. (*Voiture pour mineurs.*)



William H. P. Jones, Highland, California, U.S.A., 6th March, 1899; 6 years. (Filed 6th October, 1898.)

**Claim.**—1st. An apparatus for the purpose described, comprising a supporting frame formed of sections, a drive-wheel mounted in each section, a clamping mechanism adapted to interchangeably join the sections, whereby said sections may be adjusted to bring the wheels close together or separated for the purposes specified. 2nd. An apparatus for the purposes described, comprising a supporting frame formed of sections, a drive-wheel mounted in each section, clamping mechanism for interchangeably joining the two sections, and a runner for each section adapted to be detachably connected therewith and having clamp devices for engaging the wheels, as set forth. 3rd. An apparatus for the purposes described, comprising a frame formed of two longitudinal sections, each section having a supporting-wheel journaled thereon and having on the opposite sides clamping members, clamp devices for engaging said members and holding the frame with the wheels turned either to their inward or outward positions, and handle members detachably and adjustably secured to the said frame sections, substantially as shown and for