

# The Canadian Patent Office

## RECORD





Vol. XXVI.—No. 11.

NOVEMBER 30th, 1898.

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SINGLE NUMBERS, - - - 20 Cts.

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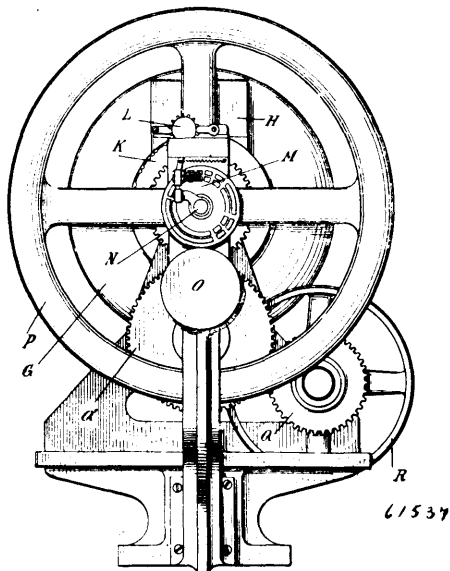
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### INVENTIONS PATENTED.

NOTE.—Patents are granted for 18 years. The term of years for which the fee has been paid, is given after the date of the patent.

#### No. 61,537. Type Casting and Composing Machine.

(*Coulage de caractères et machine à composer.*)



Charles Méray-Horvath, 1 Paulergasse, Budapest, Hungary, 2nd November, 1898; 6 years. (Filed 27th September, 1897.)

*Claim.*—1st. In a type casting machine, the combination of a laterally reciprocating matrix carrier, movable at right angles to its plane of travel, a removable matrix supported in the carrier, and a relatively stationary matrix holder adapted to take the matrix from the carrier when displaced and present it to the mould and return it to the carrier during the return stroke thereof, substantially as described. 2nd. In a type casting machine, the combination of a laterally reciprocating series of matrix carriers, removable matrix rings supported in the carriers, means for displacing a carrier in the series during the reciprocation thereof, and a relatively stationary matrix holder adapted to take a matrix ring from the displaced

carrier as the latter is moving in one direction with the series, and surrender it thereto on its return stroke, substantially as described. 3rd. In a type casting machine, the combination of a matrix holder adapted to present a matrix to the casting point, with a series of matrix carriers, a matrix ring having a plurality of matrices for different characters detachably supported on each carrier, and means for reciprocating the carriers past the holder, with means whereby any carrier may be displaced from the line during its reciprocation so as to surrender its matrix ring to the holder when moving in one direction and to receive the same on its return stroke, and means for shifting the holder so as to present the proper matrix of the ring to the mould, substantially as described. 4th. In a type casting machine, the combination of a mould, a rocking holder adapted to receive a matrix and present the same to the mould, with a series of matrix carriers, detachable matrix rings mounted on the carriers, each having a plurality of matrices for different characters, means for automatically displacing any carrier so that it will surrender the matrix to the holder on one stroke and take it therefrom on its return stroke, means for rocking the holder if necessary so that it would present the proper matrix of the ring to the mould, and means for restoring any displaced carrier to normal position after it has taken up its matrix, substantially as and for the purpose described. 5th. In a type casting machine, the combination of a series of matrix carriers, each provided with a detachable matrix, and means for simultaneously laterally reciprocating said carriers with means whereby any carrier may be selected and displaced in the series during its reciprocation, means whereby its matrix may be removed from such selected carrier, presented to the casting apparatus and returned to such carrier and means whereby the displaced carrier is returned to position in the series, all during one reciprocation of the carriers, for the purpose and substantially as described. 6th. In a type casting machine, the combination of the mould, the matrix rings each having a plurality of characters, the rocking matrix holder, and means for moving the holder to and from said mould, with mechanism for successively supplying matrix rings to and removing them from said holder, substantially as and for the purpose described. 7th. The combination of a mould, a matrix holder movable to and from the mould and rotatable on its axis, a series of matrix rings each having a plurality of matrices in its periphery, and means for supplying said matrices singly or one at a time to, and removing them from the holder, with means whereby the holder may be rocked as it is moved towards the mould so as to present the proper matrix thereto, and means whereby the mould is automatically varied in size to suit the type character to be cast. 8th. For a type casting machine, a matrix ring having a plurality of matrices in its periphery and a recess in its side opposite each matrix to regulate the size of the body of the type, substantially as described. 9th. In a type casting machine, the combination of a matrix holder, and a series of matrix pieces each having a plurality of matrices, and a recess in its side beside each matrix, and means for supplying these matrix pieces to, and removing them from the holder, with a mould to which the matrix pieces are presented, said mould having a movable side provided with a finger or rod adapted to enter the recess in the side of the matrix piece and thus regulate the size of the mould according to the type character to be cast. 10th. The combination with a mould, of a matrix holder movable to and from said mould and rotatable on its axis, and a series of matrix-rings each having a plurality of matrices in its periphery, means for successively supplying said matrix rings to and removing them from the holder, and means substantially as described whereby the holder may be automatically rocked on its axis as it is moved toward the mould, for the purpose and substantially as described. 11th. The combination of the laterally reciprocating and swinging carrier B, having a recess in one edge for the reception of a matrix ring, and a spring-controlled catch on the carrier adapted to secure the matrix