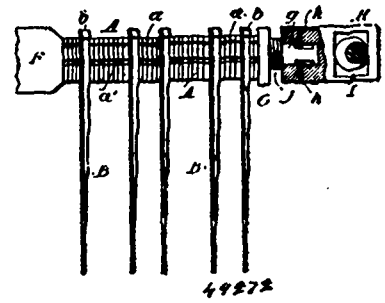
word-space determining device adapted to be set to determine word-spaces, a key-piece, a transfer carriage and devices carried thereby for transferring a setting from the key-piece to the space determining device, and mechanism constructed to move said carriage from an intermediate position to the space determining device to impart its previous setting, then to the key-piece to receive a new setting, and then to the intermediate position, whereby the transfer of a setting may be delayed, substantially as set forth. 38th. In justifying mechanism, a stepped part capable of two movements, a key-piece provided with keys each having two setting surfaces, a transfer carriage provided with devices for transferring a setting from the key-piece to the stepped part, and mechanism constructed to move said carriage from an intermediate position to impart its previous setting to the stepped part, then to the key-piece to receive a new setting, and lastly to the intermediate position, whereby the transfer of a setting may be delayed, substantially as described. 39th. In justifying mechanism, a word-space determining device adapted to be set to determine word-spaces of uniform value, embracing a stepped part arranged to be set by two movements, one movement according to quotient and the other according to remainder, in combination with a key-piece provided with keys each having two setting surfaces, and a pair of setting transfer slides adapted to be set by a key of the key-piece and movable to transfer said setting to the stepped part, substantially as described. 40th. The combination with the key-piece and the stepped part capable of two movements, of the transfer carriage, and the setting transfer slide mounted in said carriage, said slides being adapted to be set by the key-piece and to transfer their setting to the stepped part, substantially as described. 41st. In justifying mechanism, the transfer carriage, the setting transfer slides provided with racks and mounted in the carriage, the common pawl pivoted on the carriage and arranged to engage the racks, and the switch for disengaging the pawl from the racks as the carriage is lowered, substantially as described. 42nd. The combination, with a word space impression device consisting of a series of punches, of an interponent movable to select punches, a stepped part capable of two movements, and connections intermediate the interponent and the stepped part whereby the former is controlled by the latter, substantially as described. 43rd. In mechanism for inserting word space impressions, a series of punches, an interponent movable to select punches, a movable part for driving the interponent, a stepped part capable of two movements and arranged to place the interponent, a ratchet connected with said part, and a pawl operating upon the ratchet, said pawl being connected with the movable part which drives the interponent, substantially as described. 44th. In justifying mechanism, the combination with the key-piece movable in two directions and provided with a series of individual keys, of the starting shaft and means operated by said shaft and constructed to lock the key-piece to prevent movement while its setting is being transferred, substantially as described. 45th. The combination, with the movable justifier key-piece, of a carriage movable to and from said key-piece, a pair of setting transfer slides mounted in said carriage and provided with racks or teeth, a pawl also mounted on said carriage and arranged to engage the teeth to hold the slides, and means for releasing the pawl from the slides when the setting has been transferred, substantially as described. 46th. In a machine of the class described, the combination with a stepped part capable of two adjustments, one corresponding to quotient and the other to remainder, of a ratchet-wheel for moving the stepped part, a series of punches for making word-space selecting impressions, an interponent controlled by said part, a slide for driving the interponent, and a pawl connected with the slide and arranged to operate the ratchet-wheel and effect a backward movement of the stepped part, whereby the step may be brought into action to change the adjustment of the interponent, substantially as described. 47th. In a machine of the class described, an impression device constructed to insert word-space impressions, means for feeding a controller to said device, and means controlled by trip impressions upon the controllers for bringing said impression device into action, substantially as described. 48th. In a machine of the class described, the combination with means for producing trip impressions to indicate word-spaces, of a feeler in the line of said impressions, a word-space impression device, and means whereby said device is brought into action each time the feeler finds a trip impression, whereby justifying word-spaces may be inserted, substantially as described. 49th. The combination with means for producing trip impressions in a controller to indicate word-spaces, of a feeler and means for reciprocating the same in the line of said impressions, a word-space impression device consisting of a series of punches, an interponent for selecting the punches, a constantly moving slide, and an interponent connected with the feeler and arranged to interpose between the moving slide and the first named interponent, or its support, each time the feeler finds a trip impression in the controller, substantially as described. 50th. The combination with means for making impressions in a controller to indicate the division into lines, of an impression device arranged to make justifying word-space selecting impressions, a feeler arranged in the path of the line impressions, mechanism for feeding the controller to the word-space impression device, and a stopping device for said mechanism arranged to be brought into action each time the feeler finds a line impression, substantially as described. 51st. The combination with means for making impressions in a controller to indicate the division into lines, of an impression device arranged to make justifying word-space selecting impressions, a feeler arranged to vibrate upon the controller in the path of the line impressions, mechanism for feeding the controller to the word-space impression device, a sliding bolt arranged to stop the feeding mechanism, a constantly moving slide or part, and an interponent connected with the feeeler and arranged to interpose in the path of said slide, to throw the bolt each time the feeler finds a line impression, substantially as specified. 52nd. The method of making a justified controller for composing machines which consists, first, in making character-selecting impressions therein in sequence to form the words of a line, "trip" impressions to indicate the word-spaces, and line impressions to indicate the ends of the line, then determining the widths of the word-spaces, and line impressions to indicate the ends of the line, then determining the widths of the word-spaces necessary to justify the line, and finally inserting word-space selecting impressions adjacent to the "trip" impressions and adapted to select such spaces in the composing machine as will perfectly justify the line of type substantially as described. 53rd. The method herein described of preparing a justified controller for composing machines which consists in consecutively forming therein character-selecting impressions for the characters constituting words, leaving blank intervals for the word-space selecting impressions, and after the impressions for the words to be included in a line are completed, forming in said blank intervals such word-space selecting impressions as shall select spaces of proper size to perfectly justify the line, substantially as described. 54th. The method herein described of making a justified controller for a type casting and composing machine which consists, first, in making character selecting impressions therein to form the words of a line and corresponding character-space impressions, leaving blank intervals between the words, and after the impressions for the words necessary for a line are completed, forming in said blank intervals such impressions as shall select spaces of a proper size to perfectly justify the line of type, substantially as described.

No. 49,272. Justifying Mechanism for Type and Type Matrices. (*Mécanisme pour justifier les caractères et matrices.*)



The Mergenthaler Linotype Company, New York, State of New York, assignee of Philip Tell Dodge, Washington, Columbia, U.S.A., 20th June, 1895; 6 years.

Claim.—1st. In a linotype machine, elongated tapered spaces, provided with sustaining shoulders at their thicker ends, whereby they may be sustained with their thicker ends in the line during its composition. 2nd. In a linotype machine, and in combination with a composed line of matrices, and means for sustaining the same, a series of elongated spaces diminishing in thickness from their upper to their ends, and adapted to be lifted endwise through the line, and means for applying a compression to the line, as the spaces are withdrawn. 3rd. In a linotype machine, and in combination with a composed line of matrices, a series of tapered spaces, adapted and arranged to be inserted with their thicker ends in the line in the first instance, jaws or abutments to determine the length of the line, means for automatically advancing one of said jaws toward the other, to compress the line, as the spaces are withdrawn, and means to limit the approximation of the jaws to prevent excessive reduction in the length of the line. 4th. Method of justifying a composed line of matrices, consisting in introducing therein the thicker ends of elongated tapered spaces, applying compression endwise to the line and at the same time adjusting the spaces endwise through the line, without removing them therefrom, until the line is reduced to the requisite length.

No. 49,273. Gas Burner Regulator.

(*Régulateur pour brûleurs de gaz.*)

The Faultless Gas Saver Company, assignee of Joseph Kraker, both of San Francisco, California, U.S.A., 20th June, 1895; 6 years.

Claim.—1st. An independent gas burner regulator, consisting of a closed casing having its lower end secured to the gas supply pipe, and a burner secured to the upper end, a valve seat of conical form within said casing, having a hollow extension adjustably fitted to the top of the casing, and a valve of conical form having a guiding