

# PATENT SPECIFICATION

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## COMPLETE SPECIFICATION

### Improvements in or relating to methods of and Apparatus for Composing Lettering for Printing

We, GEORGES PIERRE BAFOUR, a French Citizen, of 27 Rue de la Convention, Paris 15, France, ANDRE RENE BLANCHARD, a French Citizen of 57, Rue Vereingétorix, Paris 14, France, and FRANCOIS HENRI RAYMOND, a French Citizen, of 10, Rue d'Ayen le Vesinet, Seine et Oise, France, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention relates to methods of, and apparatus for, composing lettering for printing. The terms "lettering" and "letters" are used herein to include capitals and small capitals, lower-case, spaces, prints and references, figures, accents, hyphens, ligatures and so forth, and the term "printing" includes relief or letterpress printing, surface or planographic printing and intaglio printing. The object of the invention is to enable the composition of lettering for printing to be carried out more quickly, or at least for the most part automatically, and hence more cheaply, than in known methods and with known apparatus.

The present process of preparing and composing lettering for printing may be summarized as follows:

A number of typewritten fair copies are produced from an author's manuscript, which may have been altered.

A composition overseer then works on one of these typewritten copies. Apart from the obvious corrections of errors in typing and syntax which may still be necessary notwithstanding the corrections previously made on the copies, this work comprises essentially entering on the said copy the following information:

a) Indication of the format and if necessary of the margins.

b) The measure of the lines.

[Price 3s. 6d.]

c) The style and size of type to be used for the various elements of the lettering. 45

d) Indications of alterations to paragraphs, in the typewritten copy, if any.

e) Indications of spaces to be left for illustrations. 50

f) Make-up instructions.

g) Indications of the positions of footnotes.

h) Any other printing instructions.

The copy thus prepared is then handed to a compositor who operates a composing machine and in addition ensures that the separate and essential operations of breaking words at the end of the lines and justification are performed. It is of little importance from the viewpoint of the present invention whether the action taken by the compositor results in the production of lines of type metal, or a printed photographic film, or simply a record (generally a perforated tape) suitable for the control of a semi-automatic or automatic composing machine. It will suffice to state here that such automatically or semi-automatically controlled composing machines are known, but that in such cases the preparation of the control tape has hitherto necessitated the employment of a skilled craftsman. 70

A particular object of the present invention is to eliminate the necessity for a skilled craftsman to decide where to break the lines of type and to justify the lines.

The invention may also eliminate the necessity for producing a typewritten fair copy of a manuscript prior to the composition, provided however that the said manuscript is presented to the composition overseer in the form of a legible copy. 80

The term "service information" is hereinafter employed to indicate all the information listed at a) to h) above.

The term "coded record" is hereinafter employed to designate any record of information which may be mechanically, electrically 85