

S. STEPHENS.
 PRINTER'S FURNITURE.
 APPLICATION FILED OCT. 25, 1911.

1,024,606.

Patented Apr. 30, 1912.

SPACES.						QUADRATS.					
1	2	3	4	5	6	12	18	24	30	36	42

Witnesses

Horace A. Groseman

Carl L. Choate

Inventor:

Samuel Stephens.

by Emory Brock Janney Stanley Atty

UNITED STATES PATENT OFFICE.

SAMUEL STEPHENS, OF WEST SOMERVILLE, MASSACHUSETTS.

PRINTER'S FURNITURE.

1,024,606.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, SAMUEL STEPHENS, a citizen of the United States, and a resident of West Somerville, in the county of Middlesex and State of Massachusetts, have invented an Improvement in Printers' Furniture, of which the following description is a specification.

This invention relates to printers' furniture.

Heretofore so far as I am aware printers' spaces have been based on proportional divisions of the squares of their own bodies and the quadrats have been based on the squares and proportional increase of the squares of their own bodies. By the term "body" as here employed is meant the perpendicular measurement of the space or quadrat as shown in print, the horizontal measurement appearing in print being the set or width. This system is objectionable because a plurality of pieces is often required to fill a single blank space, thus involving loss of time, liability of the leads or spaces to work up or slide by, and in addition frequently requiring considerable calculation upon the part of the printer or type-setter.

In accordance with my invention, I prepare a series of spaces and quadrats of any suitable material, such, for example, as metal, wood or any other desired substance. Preferably I employ metal and form the spaces and quadrats of machine cast and accurately dressed blocks or masses. Regardless of the sizes of the bodies, all the spaces included in the system are cast or formed upon the basis of the width or set of a single printers' point. By the technical term "point", I mean that unit of measurement which has been substantially universally adopted throughout the United States as a system of measurement for type foundry and printers' use.

In accordance with my invention I prepare a series of spaces for each body measurement, preferably six in number, the first of said spaces being of the width of a single point, the second the width of two points, the third the width of three points, the fourth the width of four points, the fifth the width of five points and the sixth the width of six points, as indicated upon the drawing, wherein I have indicated spaces of a six point body, an eight point body, a ten point body and a twelve point body re-

spectively. Each of these spaces as previously indicated is of a single piece of metal or other suitable material; thus I avoid that loss of time involved in calculating the make up of spaces and also avoid all danger of displacement of the constituent parts of the said spaces or quadrats. It is to be understood that my system may be indefinitely extended and may be applied to spaces and quadrats of any body dimension. Referring to the drawing, it will be noted that the sixth space of the six point body is a square; that is, its body and set are equal. Obviously, the series of so-called spaces may be extended beyond the sixth space referred to and may be larger multiples of a single point, but preferably I do not continue the series of spaces beyond the said six point space.

Each of the quadrats is, in accordance with my system, cast or formed upon a multiple of six points. In the drawing, I have represented a series of six quadrats for each of the several bodies; namely, 12, 18, 24, 30, 36 and 42 point quadrats. In other words, the first of these quadrats is the second multiple of a six point space, the second is the third multiple thereof, the third is the fourth multiple thereof, the fourth is the fifth multiple thereof, the fifth is the sixth multiple thereof and the sixth is the seventh multiple thereof, and so on indefinitely or so far as it is desired to carry out the system.

It is evident that by the use of my system or method any space, the width whereof is from one to six points, may be filled by a single piece of metal or other material, and that any other space greater in width than six points may be filled either by a single piece or by two pieces, more than two pieces never being required. For example, if it be required to fill a space having the width of seven points, I select a quadrat having the width of six points and a space having the width of one point, which placed side by side fill the seven point space.

In order to save material and for the sake of lightness, certain of the masses, as, for example, the larger quadrats may be hollow. If desired, certain of the spaces may also be made hollow, but this is usually unnecessary.

I am aware that certain spaces and quadrats now in use may coincide in dimensions with certain of the spaces and quadrats of

my system. Such coincidence, however, is sporadic merely, and in no way detracts from the novelty of my method or system of spacing as a whole.

5 Having thus described my invention, I declare that what I desire to claim is—

1. Printers' furniture consisting of a series of spaces and quadrats all of the same body measurement, and all based as to width
10 upon the width of a printers' point, said spaces being of increasing width in an arithmetical progression, and said quadrats each being a multiple as to width of a selected one of said spaces, which is itself a multiple
15 of said printers' point.

2. Printers' furniture consisting of a series of spaces and quadrats all of the same

body measurement, and all based as to width upon the width of a printers' point, said spaces being at least six in number and of
20 increasing width in an arithmetical progression ranging from one to six, and said quadrats being as to width progressively increasing multiples of said six-point space, whereby any width of said body measure-
25 ment may be supplied by two pieces of said furniture.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

SAMUEL STEPHENS.

Witnesses:

IRVING U. TOWNSEND,
ROBERT H. KAMMLER.