

## DESCRIPTION OF SELF SPACING TYPE

THE common widths of book pages, miscellaneous jobs and newspaper columns are some number of Pica ems, therefore the Pica em is taken as the basis for Self Spacing type. The thinnest space in all fonts is some exact fraction of a Pica, and this fraction of Pica is called the unit of measure. All characters, spaces and quads in the font are made some exact multiple of this unit in width, so that the sizes of all faces will work perfectly together in the regular labor-saving measures. This unit of measure may be one-sixth, one-seventh, one-eighth, one-ninth, etc., of a Pica em, as may be desired, to produce condensed, medium or extended faces. The following table gives the sizes of bodies, units of measure, and lengths of alphabets. In the first column will be found the various sizes of bodies; in the second, the number of units contained in one em Pica, and in the third the measurements of a lower case alphabet in the ems of each particular body:

BODY.	Number Units to Pica em.	Length of Alphabet.
5½ Point (Agate).....	12	16%
6 Point (Nonpareil).....	12	15½
6 Point (Nonpareil).....	11	17
7 Point (Minion).....	11	14½
7 Point (Minion).....	10	16
8 Point (Brevier).....	11	12%
8 Point (Brevier).....	10	14½
8 Point (Brevier).....	9	15½
9 Point (Bourgeois).....	10	12%
9 Point (Bourgeois).....	9	13%
10 Point (Long Primer).....	9	12%
10 Point (Long Primer).....	8	14
11 Point (Small Pica).....	8	12%
11 Point (Small Pica).....	7	14½
12 Point (Pica).....	7	13½

In the foregoing table will be found a Nonpareil with one-twelfth of Pica as the unit of measure. This is one-sixth of the body of Nonpareil, or the six-to-em space, and preserves in this particular font the old three-to-em space and the old en and em quads. The same is true of the Brevier on one-ninth, Bourgeois on one-eighth, and Pica on one-sixth of Pica.

In a complete font of the old kind of body type there are about 190 widths of bodies. Appended is a table showing the different widths of bodies of Self Spacing. It will be readily seen that there are but nine widths of bodies all told, and that the four-unit width predominates largely over any other, there being fifty-nine characters of this width. We omit the Italic characters from the table, as they go on the same widths of bodies and are interchangeable with the Roman:

1 unit—Space .....	1
2 units—Space, f i j l , ; . - ' !   '   .....	16
3 units—Quad, c e r s t z s z I J ? ) ] * † ‡ §    ¶ ° .....	22
4 units—Quad, a b d g h k n o p q u v x y f i f f \$	59
£ 1 2 3 4 5 6 7 8 9 0 A B C D E F G	
L N O P Q R T U V X Y & S Z . - } J   { \ .....	21
5 units—æ A B C D E F G L N O P Q R T U V Y H K M .....	21
6 units—Quad, m w œ w æ œ f n H K X & lb ¶ @ — ... ¼ ½ ¾ ¼ ½ ¾ ¼ ½ ¾ .....	27
7 units—W M .....	2
8 units—Æ Œ .....	2
12 units—Quad, ..... — ☞ ☞ .....	5
9 sizes. Roman characters.....	155
Italic characters.....	77
<b>Total.....</b>	<b>232</b>

Any compositor can see that no combination of units can be made that will not come within a certain number of ex-

act units of filling a line. If a line of matter lacks, it must lack one or more exact units.

Self spacing type sets line for line with the ordinary Roman, where the lengths of the alphabets are the same.

Repeated experiments with the new type have shown that the average compositor gains about twenty-five per cent. in speed, with no trouble in justification whatever. In the matter of the correction of proofs the gain is enormous. Say there is an "a" for an "e"; as "a" is four units wide and "e" three, "e" and one unit space justify the line perfectly. Even this measure of trouble is avoided in many instances. As twenty-eight of the most common lower case characters are of the same width, they can be substituted for one another without the change of a space.

This type is of greater durability as it is always on its feet and is therefore not worn by "pounding."

In tabular work there is a great gain in speed and neatness. By the addition of a new character, viz: "|", it is easy to set perpendicular lines of any length, line upon line.

It may be repeated that the compositor has nothing to learn in handling Self Spacing type. There is but a single direction to be given—to set that which looks like the em quad (six unit quad) with the nick out.

Whoever will study the principle on which Self Spacing type is based, will readily admit that it is bound to secure easy and perfect justification, greatly increased speed and consequent enormous saving, simplicity and rapidity of proof correction, and increased accuracy and ease in the setting of tables. All these points are beyond question, as certainly as the proposition that two and two make four is not open to argument. No rational person can doubt them.

No. 1	No. 2	No. 3	No. 4.	No. 5	No. 6	No. 7
i and	i HX	i DLE	s aturday pm we should	i MP	i dim	' DAN
s mit	I NK	s MIT	is thmus arms are to see	s NK	s mit	s MIT
b rot	S LY	B AIT	ne ver say I cannot do it	d LY	B rot	S AIT
si tly	E LS	m ine	Th ursday pm they must	si LS	m tly	E RK
m an	H IE	L ED	line of samples have just	m IE	L nd	H AD
su it;	SI SE	ES	nine five units is too wide	so IS	SE at	SI LS
no ts	NI X	PV SS	in creased pay will do it.	mi X	PA st	BI ts
No is	SA T	No is	comp osition leaded out	ME T	MA D	SU it
gl a	d FO	Z FLI	T Repea ting six and seven	gl a	S BIN	S FO x
mit e	OH I	SEA s	second wound was fatal	sn il	I SEA	I HO e
still i	\$34 !	NOT i	beat th is and you shall	this i	NOT !	234 i

This piece of composition was done in a 19-em measure stick, and set line upon line in the ordinary manner of straight reading matter, the lower part being leaded to show the method of setting.

To further explain and illustrate the ease with which table work is done with Self Spacing type, we show above an example of miscellaneous justifications, which is absolutely impossible to accomplish with the old kind of type. In column No. 1 the first line begins with the lower case "i", two units wide, which is followed by the upright dash, "|", two units, and the characters "a", four units, "n", four units, "d", four units, comprising sixteen units to accurately fill the column. The second line begins with the letter "s", three units wide, which throws the space rule one unit further to the right than in the preceding line. In each succeeding line lower case characters are used to the total width of sixteen units, and such characters are chosen for the first part thereof as will admit of advancing the space rule to the right exactly one unit in each succeeding line.

In the other columns the same plan is followed, the only change being the substitution of caps, small caps, figures, etc., for the lower case characters, all columns coming perfectly justified inside the perpendicular lines.

# SELF SPACING SERIES

PAT. DEC. 18, 1883

5 1/2 POINT ROMAN No. 19 1/4

Unit of measure of this font is 12 to pica

THE boys in a printing office are, as a general thing, considered a necessary evil by everyone. Their necessity is of course acknowledged, but their existence and use are regretted. This feeling, too often and too freely expressed, has its influence on the boys, and many of them share in the opinion that they are of little consequence in the printing office. But we have a word to say in their defense, and some advice to tender them. They are to be men after a while, and some of them are to be skilled workmen, foremen and proprietors, when those whose heads are now whitening and whose forms are beginning to stoop and shall have passed away. Some of them will doubtless be the successors of the tramps and botches, and possibly the idlers who disgrace not only the printing, but all other kinds of business. It is doubtless true that there is very little prospective advantage to a master to encourage him to take much pains in teaching his boy, as the hopes of realizing anything out of his developed skill are, under his present lack of a system of indenture, very small. If proprietors were reasonably assured that the pains that should be bestowed on the education of the boys would yield them some return, their opinions of and actions towards them would be materially and greatly modified. But we set out mainly to give to these young men some homely advice; and to the boy who may chance to read this we would say that we know that boys while learning a trade, feel that they are poorly paid for the amount

ABCDEFGHIJKLMNPOQRSTUVWXYZ

12345 67890

1/4 1/2 3/4 1/2 1/4 1/4 1/4 1/4 1/4 1/4

Lower case a to z, 16 1/2 ems

6 POINT ROMAN No. 20 1/4

Unit of measure of this font is 12 to pica

THE boys in a printing office are, as a general thing, considered a necessary evil by everyone. Their necessity is of course acknowledged, but their existence and use are regretted. This feeling, too often and too freely expressed, has its influence on the boys, and many of them share in the opinion that they are of little consequence in the printing office. But we have a word to say in their defense, and some advice to tender them. They are to be men after a while, and some of them are to be skilled workmen, foremen and proprietors, when those whose heads are now whitening and whose forms are beginning to stoop and shall have passed away. Some of them will doubtless be the successors of the tramps and botches, and possibly the idlers who disgrace not only the printing, but all other kinds of business. It is doubtless true that there is very little prospective advantage to a master to encourage him to take much pains in teaching his boy, as the hopes of realizing anything out of his developed skill are, under the present lack of a system of indenture, very small. If proprietors were reasonably assured that the pains that should be bestowed on the education of the boys, would yield them some return, their opinions of and actions towards them would be materially and greatly modified. But we set out mainly to give to these young men some homely advice, and to the boy

ABCDEFGHIJKLMNPOQRSTUVWXYZ

1234567890 1234567890

1/4 1/2 3/4 1/2 1/4 1/4 1/4 1/4 1/4 1/4

Lower case a to z, 15 1/2 ems

11 POINT ROMAN No. 39 1/4

Unit of measure of this font is 8 to pica

THE boys in a printing office are, as a general thing, considered a necessary evil by everyone. Their necessity is of course acknowledged, but their existence and use are regretted. This feeling, too often and too freely expressed, has its influence on the boys, and many of them share in the opinion that they are of little consequence in the printing office. But we have a word to say in their defense, and some advice to tender them. They are to be men after a while, and some of them are to be skilled workmen, foremen and proprietors, when those whose heads are now whitening and whose forms are beginning to stoop and shall have passed away. Some of them will doubtless be the successors of the tramps and botches, and possibly the idlers who disgrace not only the printing, but all other kinds of business. It

ABCDEFGHIJKLMNPOQRSTUVWXYZ

12345 67890

1/4 1/2 3/4 1/2 1/4 1/4 1/4 1/4 1/4 1/4

Lower case a to z, 12 3/4 ems

6 POINT ROMAN No. 36 1/4

Unit of measure of this font is 12 to pica

THE boys in a printing office are, as a general thing, considered a necessary evil by everyone. Their necessity is of course acknowledged, but their existence and use are regretted. This feeling, too often and too freely expressed, has its influence on the boys, and many of them share in the opinion that they are of little consequence in the printing office. But we have a word to say in their defense, and some advice to tender them. They are to be men after a while, and some of them are to be skilled workmen, foremen and proprietors, when those whose heads are now whitening and whose forms are beginning to stoop and shall have passed away. Some of them will doubtless be the successors of the tramps and botches, and possibly the idlers who disgrace not only the printing, but all other kinds of business. It is doubtless true that there is very little prospective advantage to a master to encourage him to take much pains in teaching his boy, as the hopes of realizing anything out of his developed skill are, under his present lack of a system of indenture, very small. If proprietors were reasonably assured that the pains that should be bestowed on the education of the boys would yield them some return, their opinions and actions towards them would be materially and greatly modified. But we set out mainly to give to these young men some homely advice; and to the boy who may

ABCDEFGHIJKLMNPOQRSTUVWXYZ

1234567 1234567

1/4 1/2 3/4 1/2 1/4 1/4 1/4 1/4 1/4 1/4

Lower case a to z, 15 1/2 ems

6 POINT ROMAN No. 37 1/4

Unit of measure of this font is 11 to pica

THE boys in a printing office are, as a general thing, considered a necessary evil by everyone. Their necessity is of course acknowledged, but their existence and use are regretted. This feeling, too often and too freely expressed, has its influence on the boys, and many of them share in the opinion that they are of little consequence in the printing office. But we have a word to say in their defense, and some advice to tender them. They are to be men after a while, and some of them are to be skilled workmen, foremen and proprietors, when those whose heads are now whitening and whose forms are beginning to stoop and shall have passed away. Some of them will doubtless be the successors of the tramps and botches, and possibly the idlers who disgrace not only the printing, but all other kinds of business. It is doubtless true that there is very little prospective advantage to a master to encourage him to take much pains in teaching his boy, as the hopes of realizing anything out of his developed skill are, under his present lack of a system of indenture, very small. If proprietors were reasonably assured that the pains that should be bestowed on the education of the boys would yield them some return, their opinions of and actions towards them would be materially

ABCDEFGHIJKLMNPOQRSTUVWXYZ

12345 67890

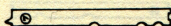
1/4 1/2 3/4 1/2 1/4 1/4 1/4 1/4 1/4 1/4

Lower case a to z, 17 ems

When desired we furnish the above faces with lower case letters f, j and ff that are kerned

# SELF SPACING SERIES

PAT. DEC. 18, 1883



7 POINT ROMAN No. 38 $\frac{1}{4}$

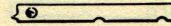
Unit of measure of this font is 10 to pica

THE boys in a printing office are, as a general thing, considered a necessary evil by everyone. Their necessity is of course acknowledged, but their existence and use are regretted. This feeling, too often and too freely expressed, has its influence on the boys, and many of them share in the opinion that they are of little consequence in the printing office. But we have a word to say in their defense, and some advice to tender them. They are to be men after a while, and some of them are to be skilled workmen, foremen and proprietors, when those whose heads are now whitening and whose forms are beginning to stoop and shall have passed away. Some of them will doubtless be the successors of the tramps and botches, and possibly the idlers who disgrace not only the printing, but all other kinds of business. It is doubtless true that there is very little prospective advantage to a master to encourage him to take much pains in teaching his boy, as the hopes

ABCDEFGHIJKLMN OPQRSTUVWXYZ

12345 67890  $\frac{1}{4}\frac{1}{2}\frac{3}{4}\frac{1}{3}\frac{2}{5}\frac{1}{8}\frac{5}{8}$

Lower case a to z, 16 ems



7 POINT ROMAN No. 23 $\frac{1}{4}$

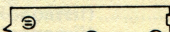
Unit of measure of this font is 11 to pica

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ABCDEFGHIJKLMN OPQRSTUVWXYZ

12345 67890  $\frac{1}{4}\frac{1}{2}\frac{3}{4}\frac{1}{3}\frac{2}{5}\frac{1}{8}\frac{5}{8}$

Lower case a to z, 14 $\frac{1}{2}$  ems



11 POINT ROMAN No. 21 $\frac{1}{4}$

Unit of measure of this font is 7 to pica

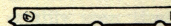
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ABCDEFGHIJKLMN OPQRSTUVWXYZ

12345 67890

$\frac{1}{1}\frac{3}{1}\frac{2}{1}\frac{3}{5}\frac{7}{7}$   
 $\frac{4}{2}\frac{4}{8}\frac{3}{8}\frac{6}{8}\frac{6}{8}$

Lower case a to z, 14 $\frac{1}{2}$  ems



7 POINT ROMAN No. 35 $\frac{1}{4}$

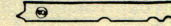
Unit of measure of this font is 11 to pica

THE boys in a printing office are, as a general thing, considered a necessary evil by everyone. Their necessity is of course acknowledged, but their existence and use are regretted. This feeling, too often and too freely expressed, has its influence on the boys, and many of them share in the opinion that they are of little consequence in the printing office. But we have a word to say in their defense, and some advice to tender them. They are to be men after a while, and some of them are to be skilled workmen, foremen and proprietors, when those whose heads are now whitening and whose forms are beginning to stoop and shall have passed away. Some of them will doubtless be the successors of the tramps and botches, and possibly the idlers who disgrace not only the printing, but all other kinds of business. It is doubtless true that there is very little prospective advantage to a master to encourage him to take much pains in teaching his boy, as the hopes of realizing anything out of his developed skill are, under his present lack of a system of indenture, very small.

ABCDEFGHIJKLMN OPQRSTUVWXYZ

12345 67890  $\frac{1}{4}\frac{1}{2}\frac{3}{4}\frac{1}{3}\frac{2}{5}\frac{1}{8}\frac{5}{8}$

Lower case a to z, 14 $\frac{1}{2}$  ems



8 POINT ROMAN No. 18 $\frac{1}{4}$

Unit of measure of this font is 10 to pica

THE boys in a printing office are, as a general thing, considered a necessary evil by everyone. Their necessity is of course acknowledged, but their existence and use are regretted. This feeling, too often and too freely expressed, has its influence on the boys, and many of them share in the opinion that they are of little consequence in the printing office. But we have a word to say in their defense, and some advice to tender them. They are to be men after a while, and some of them are to be skilled workmen, foremen and proprietors, when those whose heads are now whitening and whose forms are beginning to stoop and shall have passed away. Some of them will doubtless be the successors of the tramps and botches, and possibly the idlers who disgrace not only the printing, but all other kinds of

ABCDEFGHIJKLMN OPQRSTUVWXYZ

12345 67890  $\frac{1}{4}\frac{1}{2}\frac{3}{4}\frac{1}{3}\frac{2}{5}\frac{1}{8}\frac{5}{8}$

Lower case a to z, 14 $\frac{1}{2}$  ems

When desired we furnish the above faces with lower case letters f, j and ff that are kerned

# SELF SPACING SERIES

PAT. DEC. 18, 1888

8 POINT ROMAN No. 34½

Unit of measure of this font is 10 to pica

THE boys in a printing office are, as a general thing, considered a necessary evil by everyone. Their necessity is of course acknowledged, but their existence and use are regretted. This feeling, too often and too freely expressed, has its influence on the boys, and many of them share in the opinion that they are of little consequence in the printing office. But we have a word to say in their defense, and some advice to tender them. They are to be men after a while, and some of them are to be skilled workmen, foremen and proprietors, when those whose heads are now whitening and whose forms are beginning to stoop and shall have passed away. Some of them will doubtless be the successors of the tramps and botches, and possibly the idlers who disgrace not only the printing, but all other kinds of business. *It is doubtless true that there is very little*

ABCDEFGHIJKLMN OPQRSTUVWXYZ

12345 67890 1/1/3/1/2/1/3/5/7/  
4/2/4/3/3/8/8/8/8  
Lower case a to z, 14½ ems

8 POINT ROMAN No. 48½

Unit of measure of this font is 9 to pica

THE boys in a printing office are, as a general thing, considered a necessary evil by everyone. Their necessity is of course acknowledged, but their existence and use are regretted. This feeling, too often and too freely expressed, has its influence on the boys, and many of them share in the opinion that they are of little consequence in the printing office. But we have a word to say in their defense, and some advice to tender them. They are to be men after a while, and some of them are to be skilled workmen, foremen and proprietors, when those whose heads are now whitening and whose forms are beginning to stoop and shall have passed away. Some of them will doubtless be the successors of the tramps and botches, and possibly the idlers who disgrace not only the

ABCDEFGHIJKLMN OPQRSTUVWXYZ

12345 67890 1/1/3/1/2/1/3/5/7/  
4/2/4/3/3/8/8/8/8  
Lower case a to z, 15½ ems

12 POINT ROMAN No. 31½

Unit of measure of this font is 7 to pica

THE boys in a printing office are, as a general thing, considered a necessary evil by everyone. Their necessity is of course acknowledged, but their existence and use are regretted. This feeling, too often and too freely expressed, has its influence on the boys, and many of them share in the opinion that they are of little consequence in the printing office. But we have a word to say in their defense, and some advice to tender them. They are to be men after a while, and some of them are to be skilled workmen, foremen and proprietors, when those whose heads are now whitening and whose forms are beginning to stoop and shall have passed away. *Some of*

ABCDEFGHIJKLMN OPQRSTUVWXYZ

12345 67890 1/1/3/1/2/1/3/5/7/  
4/2/4/3/3/8/8/8/8  
Lower case a to z, 13¾ ems

9 POINT ROMAN No. 32½

Unit of measure of this font is 9 to pica

THE boys in a printing office are, as a general thing, considered a necessary evil by everyone. Their necessity is, of course, acknowledged, but their existence and use are regretted. This feeling, too often and too freely expressed, has its influence on the boys, and many of them share in the opinion that they are of little consequence in the printing office. But we have a word to say in their defense, and some advice to tender them. They are to be men after a while, and some of them are to be skilled workmen, foremen and proprietors, when those whose heads are now whitening and whose forms are beginning to stoop and

ABCDEFGHIJKLMN OPQRSTUVWXYZ

12345 67890 1/1/3/1/2/1/3/5/7/  
4/2/4/3/3/8/8/8/8  
Lower case a to z, 13¾ ems

10 POINT ROMAN No. 17½

Unit of measure of this font is 8 to pica

THE boys in a printing office are, as a general thing, considered a necessary evil by everyone. Their necessity is of course acknowledged, but their existence and use are regretted. This feeling, too often and too freely expressed, has its influence on the boys, and many of them share in the opinion that they are of little consequence in the printing office. But we have a word to say in their defense, and some advice to tender them. They are to be men after a while, and some of them are to be skilled workmen, foremen

ABCDEFGHIJKLMN OPQRSTUVWXYZ

12345 67890 1/1/3/1/2/1/3/5/7/  
4/2/4/3/3/8/8/8/8  
Lower case a to z, 14 ems

When desired we furnish the above faces with lower case letters f, j and ff that are kerned

# SELF SPACING SERIES

PAT. DEC. 18, 1888

## 6 POINT SELF SPACING OLD STYLE No. 27

Unit of measure of this font is 11 to pica

THE boys in a printing office are, as a general thing, considered a necessary evil by everyone. Their necessity is of course acknowledged, but their existence and use are regretted. This feeling, too often and too freely expressed, has its influence on the boys, and many of them share in the opinion that they are of little consequence in the printing office. But we have a word to say in their defense, and some advice to tender them. They are to be men after a while, and some of them are to be skilled workmen, foremen and proprietors, when those whose heads are now whitening and whose forms are beginning to stoop and shall have passed away. Some of them will doubtless be the successors of the tramps and botches, and possibly the idlers who disgrace not only the printing, but all other kinds of business. It is doubtless true that there is very little prospective advantage to a master to encourage him to take much pains in teaching his boy, as the hopes of realizing anything out of his developed skill are, under his present lack of a system of indenture, very small. If proprietors were reasonably assured that the pains that should be bestowed on the education of the boys would yield them some return, their opinions of and actions towards

ABCDEFGHIJKLMNPOQRSTUVWXYZ

12345 67890

$\frac{1}{4}\frac{1}{4}\frac{3}{8}\frac{1}{8}\frac{3}{8}\frac{1}{8}\frac{3}{8}$

Lower case a to z, 17 ems

## 8 POINT SELF SPACING OLD STYLE No. 22

Unit of measure of this font is 10 to pica

THE boys in a printing office are, as a general thing, considered a necessary evil by everyone. Their necessity is of course acknowledged, but their existence and use are regretted. This feeling, too often and too freely expressed, has its influence on the boys, and many of them share in the opinion that they are of little consequence in the printing office. But we have a word to say in their defense, and some advice to tender them. They are to be men after a while, and some of them are to be skilled workmen, foremen and proprietors, when those whose heads are now whitening and whose forms are beginning to stoop and shall have passed away. Some of them will doubtless be the successors of the tramps and botches, and possibly the idlers who disgrace not only the printing, but all other kinds of business. It is doubtless true that there is very little

ABCDEFGHIJKLMNPOQRSTUVWXYZ

12345 45678

$\frac{1}{4}\frac{1}{2}\frac{3}{4}\frac{1}{8}\frac{3}{8}\frac{1}{8}\frac{3}{8}$

Lower case a to z, 14½ ems

## 10 POINT SELF SPACING OLD STYLE No. 24

Unit of measure of this font is 8 to pica

THE boys in a printing office are, as a general thing, considered a necessary evil by everyone. Their necessity is of course acknowledged, but their existence and use are regretted. This feeling, too often and too freely expressed, has its influence on the boys, and many of them share in the opinion that they are of little consequence in the printing office. But we have a word to say in their defense, and some advice to tender them. They are to be men after a while, and some of them are to be skilled workmen, foremen and proprietors, when those whose heads are now whitening and whose forms are beginning to stoop and shall have passed away. Some of them will doubtless be the successors of the tramps and botches, and possibly the idlers who disgrace not only the printing, but all other kinds of business. It is doubtless true that there is very little prospective advantage to a master to take

ABCDEFGHIJKLMNPOQRSTUVWXYZ

12345 67890

$\frac{1}{2}\frac{1}{3}\frac{2}{3}\frac{1}{8}\frac{3}{8}\frac{5}{8}\frac{7}{8}$

Lower case a to z, 14 ems

## 9 POINT SELF SPACING OLD STYLE No. 28

Unit of measure of this font is 9 to pica

THE boys in a printing office are, as a general thing, considered a necessary evil by everyone. Their necessity is of course acknowledged, but their existence and use are regretted. This feeling, too often and too freely expressed, has its influence on the boys, and many of them share in the opinion that they are of little consequence in the printing office. But we have a word to say in their defense, and some advice to tender them. They are to be men after a while, and some of them are to be skilled workmen, foremen and proprietors, when those whose heads are whitening and whose forms are beginning to stoop and

ABCDEFGHIJKLMNPOQRSTUVWXYZ

12345 67890

$\frac{1}{4}\frac{1}{4}\frac{3}{8}\frac{1}{8}\frac{3}{8}\frac{1}{8}\frac{3}{8}$

Lower case a to z, 13¾ ems

## 10 POINT SELF SPACING OLD STYLE No. 29

Unit of measure of this font is 9 to pica

THE boys in a printing office are, as a general thing, considered a necessary evil by everyone. Their necessity is of course acknowledged, but their existence and use are regretted. This feeling, too often and too freely expressed, has its influence on the boys, and many of them share in the opinion that they are of little consequence in the printing office. But we have a word to say in their defense, and some advice to tender them. They are to be men after a while, and some of them are to be skilled workmen, foremen and proprietors, when those whose heads are whitening and whose forms are beginning to stoop and

ABCDEFGHIJKLMNPOQRSTUVWXYZ

12345 67890

$\frac{1}{4}\frac{1}{2}\frac{3}{4}\frac{1}{8}\frac{3}{8}\frac{1}{8}\frac{3}{8}$

Lower case a to z, 12¾ ems

# SELF SPACING SERIES

PAT. DEC. 18, 1888



11 POINT SELF SPACING OLD STYLE NO. 25

Unit of measure of this font is 8 to pica

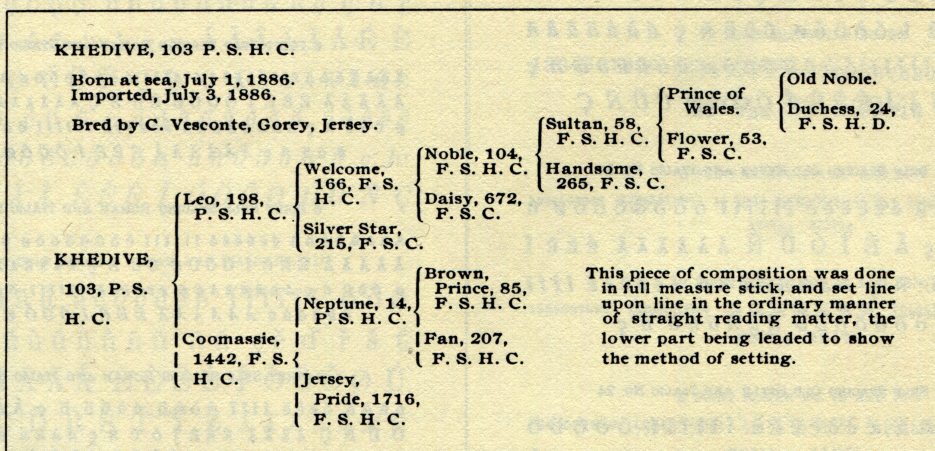
THE boys in a printing office are, as a general thing, considered a necessary evil by everyone. Their necessity is of course acknowledged, but their existence and use are regretted. This feeling, too often and too freely expressed, has its influence on the boys, and many of them share in the opinion that they are of little consequence in the printing office. But we have a word to say in their defense, and some advice to tender them. They are to be men after a while, and some of them are to be skilled workmen, foremen and proprietors, when those whose heads are now whitening and whose forms are beginning to stoop and shall have passed away. Some of them will doubtless be the successors of the tramps and botches, and possibly the idlers who disgrace not only the printing, but all other kinds of business. It is doubtless true that there is very little prospective advantage to a master to encourage him to take much pains in teaching his boy, as the hopes of realizing anything out of his developed skill are, under his present lack of a

ABCDEFGHIJKLMNOPQRSTUVWXYZ

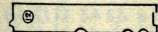
12345 67890

$\frac{1}{4}\frac{1}{2}\frac{3}{4}\frac{1}{3}\frac{2}{3}\frac{1}{8}\frac{3}{8}$

Lower case a to z,  $12\frac{3}{4}$  ems



Pedigree set in 6 Point Self Spacing Old Style No. 27



12 POINT SELF SPACING OLD STYLE NO. 26

Unit of measure of this font is 7 to pica

THE boys in a printing office are, as a general thing, considered a necessary evil by everyone. Their necessity is of course acknowledged, but their existence and use are regretted. This feeling, too often and too freely expressed, has its influence on the boys, and many of them share in the opinion that they are of little consequence in the printing office. But we have a word to say in their defense, and some advice to tender them. They are to be men after a while, and some of them are to be skilled workmen, foremen and proprietors, while those whose heads are now whitening and whose forms are beginning to stoop and shall have passed away. Some of them will doubtless be the successors of the tramps and botches, and possibly the idlers who disgrace not only the printing, but all other kinds of business. It is true

ABCDEFGHIJKLMNOPQRSTUVWXYZ

12345 34567

$\frac{1}{4}\frac{1}{2}\frac{3}{4}\frac{1}{3}\frac{2}{3}\frac{1}{8}\frac{5}{8}$

Lower case a to z,  $13\frac{1}{4}$  ems



# SELF SPACING ACCENTS AND PIECE FRACTIONS

ACCENTS PAT. DEC. 18, 1888    PIECE FRACTIONS PAT. SEPT. 3, 1890

## 8 POINT SELF SPACING ROMAN AND ITALIC NO. 48½

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## 9 POINT SELF SPACING ROMAN AND ITALIC NO. 32½

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## 10 POINT SELF SPACING ROMAN AND ITALIC NO. 17½

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## 11 POINT SELF SPACING ROMAN AND ITALIC NO. 21½

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## 12 POINT SELF SPACING ROMAN AND ITALIC NO. 31½

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## 6 POINT OLD STYLE NO. 27

1234567890 1234567890 1/6 1/6 1/4 1/4 2/6 2/6 5/7 1234567890 1234567890  
 361<sup>19</sup>/<sub>32</sub> 724<sup>14</sup>/<sub>16</sub>

## 8 POINT OLD STYLE NO. 22

1234567890 1234567890 1/6 1/6 1/4 2/6 2/6 5/7 1234567890 1234567890  
 751<sup>19</sup>/<sub>32</sub> 431<sup>14</sup>/<sub>16</sub>

## 9 POINT OLD STYLE NO. 28

1234567890 1234567890 1/6 2/6 2/6 1/7 1234567890 1234567890  
 461<sup>13</sup>/<sub>32</sub> 951<sup>14</sup>/<sub>16</sub>

## 10 POINT OLD STYLE NO. 24

1234567890 1234567890 1/6 1234567890 1234567890  
 321<sup>17</sup>/<sub>32</sub> 274<sup>14</sup>/<sub>16</sub>

## 11 POINT OLD STYLE NO. 25

1234567890 1234567890 1/6 1234567890 1234567890  
 981<sup>19</sup>/<sub>32</sub> 352<sup>14</sup>/<sub>16</sub>

## 12 POINT OLD STYLE NO. 26

1234567890 1234567890 1/6 1234567890 1234567890  
 491<sup>15</sup>/<sub>32</sub> 4/5 528<sup>14</sup>/<sub>16</sub>

## 6 POINT ROMAN NO. 20 AND 20½

1234567890 1234567890 1/6 1/6 1/4 1/6 2/6 2/6 5/7 5/6 1234567890 1234567890  
 122<sup>7</sup>/<sub>32</sub> 379<sup>14</sup>/<sub>16</sub>

## 7 POINT ROMAN NO. 23 AND 23½

1234567890 1234567890 1/6 1/6 1/4 2/6 2/6 5/7 1234567890 1234567890  
 681<sup>15</sup>/<sub>16</sub> 401<sup>14</sup>/<sub>16</sub>

## 8 POINT ROMAN NO. 18 AND 18½

1234567890 1234567890 1/6 1/6 1/4 2/6 2/6 1234567890 1234567890  
 601<sup>11</sup>/<sub>32</sub> 412<sup>14</sup>/<sub>16</sub>

## 9 POINT ROMAN NO. 32 AND 32½

1234567890 1234567890 1/4 3/6 1/6 1234567890 1234567890  
 531<sup>13</sup>/<sub>32</sub> 417<sup>14</sup>/<sub>16</sub>

## 10 POINT ROMAN NO. 17 AND 17½

1234567890 1234567890 1/6 1234567890 1234567890  
 651<sup>19</sup>/<sub>32</sub> 342<sup>14</sup>/<sub>16</sub>

## 11 POINT ROMAN NO. 21 AND 21½

1234567890 1234567890 1234567890 1234567890 1234567890  
 361<sup>17</sup>/<sub>32</sub> 1/6 676<sup>14</sup>/<sub>16</sub>

## 12 POINT ROMAN NO. 31 AND 31½

1234567890 1234567890 1234567890 1234567890  
 621<sup>11</sup>/<sub>32</sub> 4/5 767<sup>14</sup>/<sub>16</sub>

Price, \$2.50 per font, each size. Used in combination with regular font figures



# SELF SPACING SERIES

PAT. DEC. 18, 1883

6 POINT SELF SPACING GERMAN NO. 42

Unit of measure of this font is 12 to pica

Auf keinem Gebiete waren die Fortschritte seit vier Jahrhunderten so gering wie in der Kunst des Schriftsetzens. Die hier und da in Gebrauch befindlichen Maschinen sind durchaus unvollkommen; die bei weitem größte Masse der üblichen Schrift ist noch genau der Art wie vor vierhundert Jahren. Wenn Franklin heute wieder vor dem Raften stände, würde er nichts Neues zu lernen haben. Die Schriftgießerei ist hinter der wunderbaren Vervollkommnung der Pressen vollständig zurückgeblieben; die vergrößerte Geschwindigkeit im Schriftsetzen beruht ausschließlich in der Vermehrung der Rasten. Alle Bemühungen, diesem Uebelstande abzuhelfen, gingen darauf hinaus, Setzmaschinen zu erfinden, statt die Art und Weise des Handsatzens zu verbessern. Eins der Haupthindernisse, welches den Setzmaschinen im Wege stand, ist die Nothwendigkeit, mit der Hand zu „justiren“. Daran scheiterte hauptsächlich die Einführung dieser Maschinen. Es liegt daher auf der Hand, daß jeder Plan zur Verbesserung unserer Setzmethoden in erster Linie die Justirung zu vereinfachen hat, denn da dies der Punkt ist, um den sich die Sache dreht, so muß durch eine Vereinfachung des Ausschließens und Justirens die Leichtigkeit und Geschwindigkeit des Handsatzens wachsen. Dies geschieht durch Benton's selbst-ausschließende

abcdefghijklmnopqrstuvwxyz

äöüçhstffibßjffl

1234567890

¼½¾⅓⅔⅖⅙

Lower case a to z, 15 ems

8 POINT SELF SPACING GERMAN NO. 43

Unit of measure of this font is 11 to pica

Auf keinem Gebiete waren die Fortschritte seit vier Jahrhunderten so gering wie in der Kunst des Schriftsetzens. Die hier und da in Gebrauch befindlichen Maschinen sind durchaus unvollkommen; die bei weitem größte Masse der üblichen Schrift ist noch genau der Art wie vor vierhundert Jahren. Wenn Franklin heute wieder vor dem Raften stände, würde er nichts Neues zu lernen haben. Die Schriftgießerei ist hinter der wunderbaren Vervollkommnung der Pressen vollständig zurückgeblieben; die vergrößerte Geschwindigkeit im Schriftsetzen beruht ausschließlich in der Vermehrung der Rasten. Alle Bemühungen, diesem Uebelstande abzuhelfen, gingen darauf hinaus, Setzmaschinen zu erfinden, statt die Art und Weise des Handsatzens zu verbessern. Eins der Haupthindernisse, welches den Setzmaschinen im Wege stand, ist die Nothwendigkeit, mit der Hand zu „justiren“. Daran scheiterte

abcdefghijklmnopqrstuvwxyz

äöüçhstffibßjffl

1234567890

¼½¾⅓⅔⅖⅙

Lower case a to z, 12½ ems

## ENGINEERS' WRENCHES.—DROP FORGED FROM BAR STEEL.

No.	Size Bolts U. S. Standard Nuts.	Openings Unfinished.	Openings Finished.	Extreme Length.	Thickness Heads.	Prices Unfin'ed.	Prices Finished.
21	1/8 & 3/16	1/4 & 11/32	5/16 & 13/32	3 1/4	13/64 & 7/32	\$0 24	\$0 24
22	1/8 & 1/4	1/2 & 7/16	5/16 & 1/2	4	13/64 & 1/4	14	28
23	3/16 & 1/4	5/16 & 13/32	13/32 & 1/2	4	7/32 & 1/4	15	30
24	3/16 & 5/16	5/16 & 1/2	13/32 & 19/32	4 7/8	7/32 & 9/32	17	34
25	1/4 & 5/16	13/32 & 1/2	1/2 & 19/32	4 7/8	1/4 & 9/32	18	36
26	1/4 & 3/8	13/32 & 19/32	1/2 & 11/16	5 7/8	3/4 & 5/16	20	40
27	3/16 & 3/8	1/2 & 19/32	19/32 & 11/16	5 7/8	9/32 & 5/16	21	42
28	3/16 & 7/16	1/2 & 11/16	19/32 & 25/32	6 7/8	9/32 & 11/32	23	46
29	3/8 & 7/16	19/32 & 11/16	11/16 & 25/32	6 7/8	5/16 & 11/32	25	50
30	3/8 & 1/2	19/32 & 25/32	11/16 & 7/8	7 7/8	5/16 & 25/64	28	56
31	7/16 & 1/2	11/16 & 25/32	25/32 & 7/8	7 7/8	11/32 & 25/64	30	60
32	7/16 & 9/16	11/16 & 7/8	25/32 & 31/32	8 3/4	11/32 & 7/16	34	68
33	1/2 & 9/16	25/32 & 7/8	7/8 & 31/32	8 3/4	25/64 & 7/16	36	72
34	1/2 & 5/8	25/32 & 31/32	7/8 & 1 1/16	9 3/4	25/64 & 31/64	41	82
35	9/16 & 5/8	7/8 & 31/32	31/32 & 1 1/16	9 3/4	7/16 & 31/64	43	86
36	9/16 & 3/4	7/8 & 15/32	31/32 & 1 1/4	11 5/8	7/16 & 9/16	50	1 00
37	5/8 & 3/4	31/32 & 15/32	1 1/16 & 1 1/4	11 5/8	31/64 & 9/16	53	1 06

1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

Specimens of Piece Fractions set in 6 Point Self Spacing Old Style No. 27

9 POINT SELF SPACING GERMAN NO. 41

Unit of measure of this font is 10 to pica

Auf keinem Gebiete waren die Fortschritte seit vier Jahrhunderten so gering wie in der Kunst des Schriftsetzens. Die hier und da in Gebrauch befindlichen Maschinen sind durchaus unvollkommen; die bei weitem größte Masse der üblichen Schrift ist noch genau der Art wie vor vierhundert Jahren. Wenn Franklin heute wieder vor dem Raften stände, würde er nichts Neues zu lernen haben. Die Schriftgießerei ist hinter der wunderbaren Vervollkommnung der Pressen vollständig zurückgeblieben. Die vergrößerte Geschwindigkeit im Schriftsetzen beruht ausschließlich in der Vermehrung der Rasten. Alle Bemühungen, diesem Uebelstande abzuhelfen, gingen darauf hinaus, Setzmaschinen zu erfinden, statt die Art und Weise

abcdefghijklmnopqrstuvwxyz

äöüçhstffibßjffl

1234567890

¼½¾⅓⅔⅖⅙

Lower case a to z, 12 ems

10 POINT SELF SPACING GERMAN NO. 40

Unit of measure of this font is 9 to pica

Auf keinem Gebiete waren die Fortschritte seit vier Jahrhunderten so gering wie in der Kunst des Schriftsetzens. Die hier und da in Gebrauch befindlichen Maschinen sind durchaus unvollkommen; die bei weitem größte Masse der üblichen Schrift ist noch genau der Art wie vor vierhundert Jahren. Wenn Franklin heute wieder vor dem Raften stände, würde er nichts Neues zu lernen haben. Die Schriftgießerei ist hinter der wunderbaren Vervollkommnung der Pressen vollständig zurückgeblieben; die vergrößerte Geschwindigkeit im Schrift-

abcdefghijklmnopqrstuvwxyz

äöüçhstffibßjffl

1234567890

¼½¾⅓⅔⅖⅙

Lower case a to z, 12 ems

# SELF SPACING OLD STYLE ITALIC AND OLD STYLE BOLD

PAT. DEC. 18, 1883

6 POINT SELF SPACING OLD STYLE ITALIC No. 27  
CIRCULAR FONT \$7 00

## FAVORABLE SHOWING FOR SELF SPACING

*In January, 1886, I put in a font of Self Spacing and I am glad to state to you that from the total amount of composition of four compositors for sixty days, I estimate that the*

9 POINT SELF SPACING OLD STYLE ITALIC No. 28  
CIRCULAR FONT \$4 80

## FOUR HUNDRED POUNDS MORE

*In January, 1886, I put in a font of Self Spacing and I am glad to state to you that from the total*

8 POINT SELF SPACING OLD STYLE ITALIC No. 22  
CIRCULAR FONT \$5 40

## GAIN EQUAL TO THE COST OF TYPE

*In January, 1886, I put in a font of Self Spacing and I am glad to state to you that from the total amount*

10 POINT SELF SPACING OLD STYLE ITALIC No. 24  
CIRCULAR FONT \$4 45

## WHOLE COST OF TYPE SAVED

*In January, 1886, I put in a font of Self Spacing and I am glad to state that from to*

11 POINT SELF SPACING OLD STYLE ITALIC No. 25

CIRCULAR FONT \$4 20

## GLOBE JOB PRINTING ROOMS--SAINT PAUL

*In January, 1886, I put in a font of Self Spacing and I am glad to state to you that from the total amount of composition of four compositors for*

12 POINT SELF SPACING OLD STYLE ITALIC No. 26

CIRCULAR FONT \$3 95

## A RED LETTER--DO NOT READ IT

*In January, 1886, I put in a font of Self Spacing and I am glad to state to you that from the total amount of composition of four compositors for sixty days, I es-*

*Spaces and Quads are included with each font*

8 POINT SELF SPACING OLD STYLE BOLD

30 A 50 a \$3 30

## CHARMING MAIDEN MODESTY

**Finances of the United States Government Gone  
Around the World in 187**

9 POINT SELF SPACING OLD STYLE BOLD

28 A 45 a \$3 35

## SENSATIONAL GHOST STORIES

**Hard Cash Payments to American Banks  
The Mercantile Exchange**

10 POINT SELF SPACING OLD STYLE BOLD

25 A 40 a \$3 50

## BEAUTIFUL ISLES IN THE MEDITERRANEAN

**Bright Stars Adorn the Sky to Light the Path of Mariners  
If Spring has no Blossoms Autumn Will**

12 POINT SELF SPACING OLD STYLE BOLD

25 A 38 a \$4 00

## BEAUTIFUL SIGHTS BROUGHT FORTH HERE

**Upon Bleached Sands where the Ocean Flows all the Days Around  
Misrepresenting 164 Disappointments**

10 POINT IN COMBINATION WITH 10 POINT SELF SPACING OLD STYLE No. 24

This Series of Old Style Bold was cut after many inquiries for a Job face that could be used with Self Spacing to emphasize certain words. All sizes shown above will line and justify with the corresponding sizes of our Old Style Self Spacing Series.

# THE MILWAUKEE SENTINEL.

PATENTED.

## CHICAGO & NORTHWESTERN

Office, 102 Wisconsin Street, Station, foot of Wisconsin Street.

Trains	Leave Milwaukee	Arrive Chicago
Daily, except Saturday and Sunday.		
App. and Gr. B. Sun. only.	5:10 p. m.	10:40 a. m.
Appleton and Green Bay.	6:30 a. m.	4:50 a. m.
La Crosse, Winona, Minnesota and Dakota.	15:15 a. m.	16:50 p. m.
Duluth and Superior.	18:00 p. m.	7:50 a. m.
Janesville.	19:45 a. m.	7:55 p. m.
Ashland, Hurley, Rhineland.	19:00 p. m.	7:10 a. m.
Wausau.	19:20 p. m.	11:00 p. m.
Port Washington, Sheboygan and Manitowoc.	19:30 a. m.	13:50 p. m.
	19:45 a. m.	17:10 p. m.
	19:50 a. m.	17:10 p. m.
	19:50 p. m.	10:50 a. m.
	19:50 p. m.	11:00 p. m.

### MILWAUKEE MARKETS.

#### Breadstuffs—Wheat and Flour.

The breadstuffs markets yesterday was firmer, and wheat rallied from Tuesday's depression, under favorable European advices and a material decrease in the stocks on both sides of the Rock-Isles. The movement is moderate. The following table shows the opening, highest, lowest and the closing prices of No. 2 spring wheat in this market yesterday:

	Opening.	Highest.	Lowest.	Closing.
Cash	53	53 1/2	52 1/2	53
May	54	54 1/2	53 1/2	54

Car receipts of grain here during the twenty-four hours ending at 7 o'clock yesterday morning—25 cars wheat, 11 corn, 16 oats, 23 barley and 3 rye; total 78 cars. On track at Minneapolis and Duluth—78 cars wheat, against 101 the corresponding days last week and 196 in 1894. Estimated at Chicago to-day—7 cars wheat, 275 corn and 280 oats.

#### WANTED.

##### Wanted—Male Help.

CAPABLE, well-dressed man about 30 years old, with experience in industrial insurance, can obtain good position with advancement. Address, SUPERINTENDENT, 206-208 McMillan Building, La Crosse, Wisconsin.

YOUNG MAN for delivery clerk in grocery. Apply at 610 Walnut street, Milwaukee, Wis.

KEEP YOUR EYE on South Milwaukee. Headquarters for fine old whiskey and sarsaparilla. Dumb Waiters wanted. Apply in person, 1 State

SHOEMAKERS WANTED.—Operators and Laborer on Chase and McKay-Copeland Machines. Steady work. SMITH & JONES CO., Pullman.

## SELF-SPACING ROMAN TYPE.

### THE PASS EVIL.

"Men with their pockets full of passes are not fit to legislate for a free people," is the emphatic way the Indianapolis News puts the case against the practice of bestowing passes upon members of the legislature. The campaign against passes is being carried on vigorously and successfully in the Indiana legislature. The anti-pass bill has been advanced to a second reading in one branch of the legislature and its supporters believe that it cannot fail to become a law. This being the case in Indiana there is every reason why Wisconsin should do equally well. There has been a very general expression of public opinion in favor of a bill cutting off the pass as a perquisite of public office, probably as great if not greater than in Indiana. The legislature cannot ignore this strong public sentiment. The members are elected to carry out the people's wishes and where their wishes are so clearly expressed as in this case the legislature's duty is a plain one. It should take up the anti-pass bill and act upon it at once, so as to make it one of the first measures to be passed at the present session.

The course taken in this matter will be closely noted by a large number of people in this state. It will furnish an excellent test of our legislators. Those of them who put duty before private interest will be found arrayed against the continuance of the pass evil. Can any of them afford to go on record in its favor?

### EXTRAORDINARY PETITION.

As a curiosity the petition about to be presented by the Woman's Christian Temperance union to President Cleveland, asking for the prohibition of the liquor traffic and of the opium trade, is one of the most remarkable the world has ever known. It is estimated that this monster document has over 3,000,000 signatures, and is described to be six miles long. It is the result of twelve years' labor, during which time it has been circulated all over the world. It represents not only

## LABOR-SAVING.

### BIG INDIAN SCARE HERE

A STORY TOLD BY THE LATE GEORGE W. FOSTER.

### HOW PEOPLE WERE FRIGHTENED IN THE YEAR 1862.

Although There Was Not a Red Man Within 100 Miles, People Fled in a Panic From Their Homes in Ozaukee And Washington Counties.

George W. Foster, whose death occurred at Port Washington on Wednesday last, was well and favorably known in this city. He settled in Ozaukee county about the time that Frederick Hilgen and William Schroeder founded the village of Cedarburg. Pioneer settlers recall several amusing incidents connected with his early residence in this county which are apropos at this time. One of these is in connection with the great Indian scare of 1862.

No person who was not an eye-witness of this event, can have any idea of what a fright seized the people along the lake shore. Nearly every one who was able to do so fled, taking with him such household goods as he was able to gather and Milwaukee was the Mecca to which so many of the inhabitants were flocking. Farmers living on the outskirts of the village, came tearing in to town on horseback and would report most horrible crimes committed by the redskins. Of course the foe was an imaginary one and to this day it remains a mystery how it was possible for so many people to lose control of themselves entirely.

There was not an Indian within a radius of 100 miles, and where the

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