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E. Z. HART

NUMERICAL PRINTING PROCESS

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O				
01	B 21	41	B 61	B 81
01	21	B 41	C 61	B 81
01	21	41	61	81

Fig. 1.

01	21	41	61	81
01	21	41	61	81
01	21	41	61	81

Fig. 2.

02	22	42	62	82
02	22	42	62	82
02	22	42	62	82

Fig. 3.

03	23	43	63	83
03	23	43	63	83
03	23	43	63	83

Fig. 4.

04	24	44	64	84
04	24	44	64	84
04	24	44	64	84

Fig. 5.

05	25	45	65	85
05	25	45	65	85
05	25	45	65	85

Fig. 6.

06	26	46	66	86
06	26	46	66	86
06	26	46	66	86

Fig. 7.

07	27	47	67	87
07	27	47	67	87
07	27	47	67	87

Fig. 8.

08	28	48	68	88
08	28	48	68	88
08	28	48	68	88

Fig. 9.

09	29	49	69	89
09	29	49	69	89
09	29	49	69	89

Fig. 10.

10	30	50	70	90
10	30	50	70	90
10	30	50	70	90

Fig. 11.

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NUMERICAL-PRINTING PROCESS.

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This invention relates to improvements in printing processes, having more particular reference to a means for duplicating numbers on a card, sheet, page, and the like, particularly those cards or tickets which are used for parking vehicles where the patron is given a ticket and the proprietor retains a ticket or tickets of the same number.

The principal object of the invention is to devise a method of quickly printing such tickets in order to eliminate the time and labor ordinarily involved in printing same, such methods as are now employed necessitating the printing of one numeral on a ticket at a time to complete an order for such cards and the further necessity of keeping such cards in printed stock form.

The present invention involves a method whereby the cards may be printed two figures at one time and the remaining required figures added thereto in progressive order in the printing of the cards. The system may be utilized in the printing of numerals for all purposes where duplicate tickets, coupons, vouchers, checks, sheets or similar matter are required.

The invention will be better and more fully understood by reference to the following detailed description, taken in connection with the accompanying drawings, and wherein

Figure 1 is a full size plan view of a series of a sheet of cards printed in accordance with the new and improved method of printing.

Figures 1 to 11 inclusive illustrate in part the face appearance of several of the cards in reduced size, printed in accordance with the method, the several views indicating the progressive steps employed, all of which will be hereinafter more fully explained.

Proceeding in accordance with the accompanying drawings and wherein letters are employed to designate the various parts, the letter A denotes a sheet or series of cards or tickets which are scored at B for separating the portions of the ticket into two or more parts. The dotted lines C are imaginary lines, the knife severing the cards or tickets at these places, into the divided portions, one for the customer, one for the proprietor, etc., accordingly as occasion requires and the line of business or purpose for which the cards are being used. It is to be noted that the numerals are arranged in substantially

parallel vertical position on said cards or the like.

Ordinarily, in the printing of these cards or tickets, or wherever it is desirable to print other and similar cards, vouchers, checks and the like, it is necessary as heretofore referred to, to print one figure or digit at a time, the number of cards which may be thus printed depending upon the size of the press. In such cases, and where a card as illustrated in the drawing is desired, say an order is received by the printer for 5000 cards, the numbers 1 to 5000 must be printed, one figure at a time, such as 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 and so on up to 5000, and the type changed for each number.

In the present system and method where say 5000 cards are ordered, the printer prints according to the size of his press 50 sheets each from 01 to 100, that is, 50 sheets of the card illustrated in the drawing in Figures 1 and 2. Then 50 sheets each of the cards illustrated in reduced size in Figures 2 to 11 inclusive, and including additional cards up to 20, there being 10 only of the cards illustrated in their progressive order for convenience.

Attention is directed to the fact that the key to the process lies in printing the cards in divisions of 20 numbers, that is from 01 to 20, 21 to 41 and so forth, up to 100 for 5000 cards. This may be varied, however, to other divisions.

After the sheets are printed, the portions D are severed at the lines C and placed in numerically arranged and progressive stacks. The partially printed cards are then replaced in the press and then the numbers 1, 2, 3, etc., printed before the already printed figures, to finish the printing of the 5000 lot of cards. Thus the numeral 1 printed to the left of all the partly prepared cards would read 101 to 199, and the figures 2, 3, 4, etc., would increase the numbers up to the required numbers of the cards. In this manner the order of cards is printed much more rapidly than by the old system which requires the printing of one complete number on a card from 1 to 5000.

What is claimed is:

Those steps in the method of printing numerals in succession on an ordinary printing press, comprising first the printing of a plurality of groups of sheets, each group con-

taining twenty sheets each of which are divided into five cards arranged in horizontal order, the first sheet having the five numerals 1 to 5 in numerical progression of 20 printed thereon one on each card from left to right, the numerals printed on the cards of each succeeding sheet being in consecutive rotation in relation to the numerals on cor-

responding cards of the other sheets; and then the prefixing by successive imprints, of digits of consecutive valuation on each group of sheets before the previously printed numerals to form numerals of consecutive valuation extending into the thousands. 10

In testimony whereof I affix my signature.
EARNEST Z. HART.