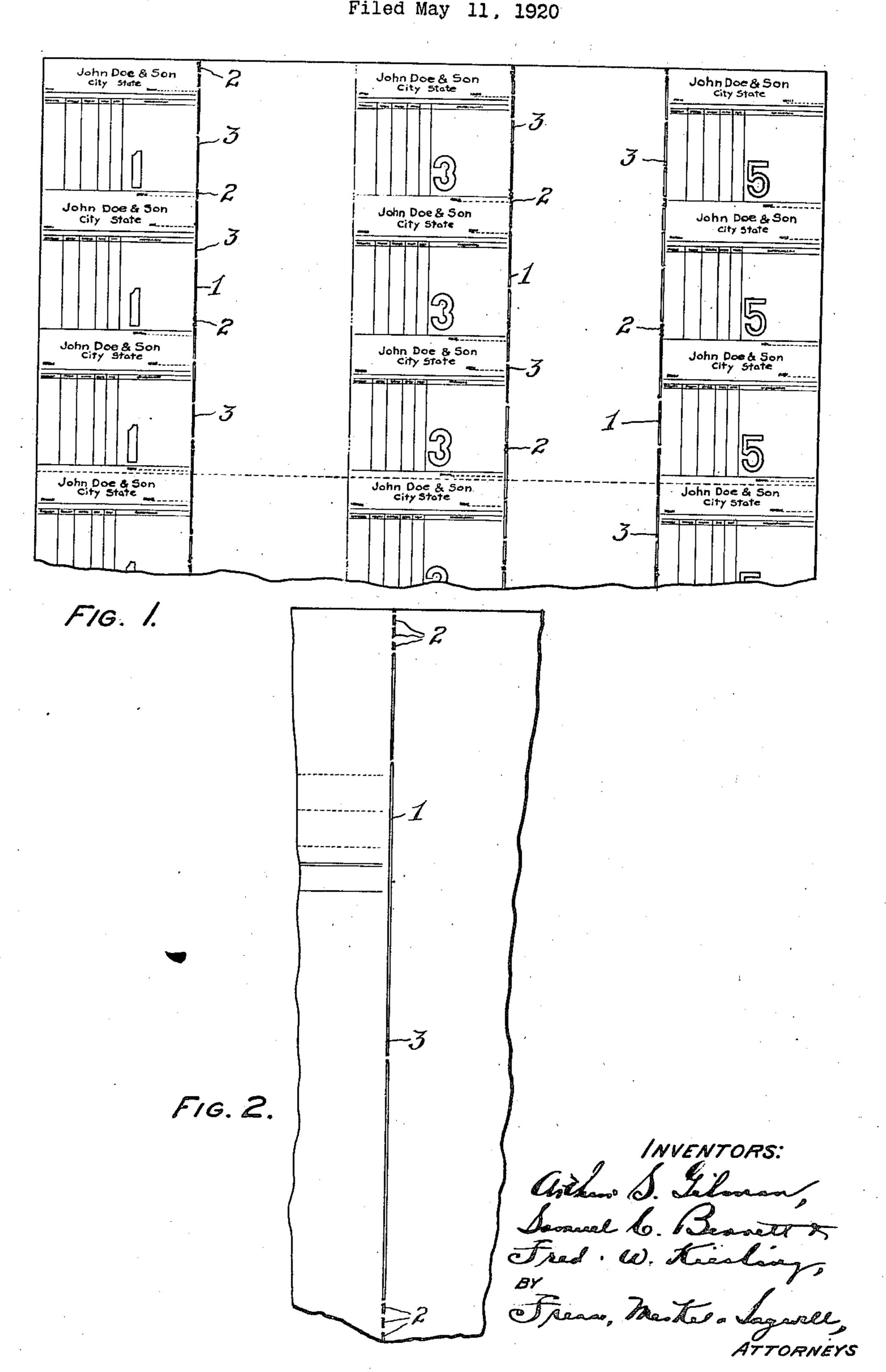
A. S. GILMAN ET AL

MANIFOLD PRINTED FORM
Filed May 11, 1920



UNITED STATES PATENT OFFICE.

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MANIFOLD PRINTED FORM.

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To all whom it may concern:

5 Cleveland, county of Cuyahoga, and State conventional manner, each of these lines con-10 plained and the best mode in which I have and groups of long slits or perforations 3 exto distinguish it from other inventions.

Our invention relates to manifold form as shown in Figure 1. sheets such as are used in making a plurali-15 ty of records upon a duplicating typewriting machine and which are provided with lines of perforations by means of which the separation of sections of the sheet is effected after the record is made, its object being to 20 provide means whereby such separation of tween the adjacent forms is small. The con-25 curate registration while the records are be-separation, as will be readily understood. ing typed.

Heretofore it has been customary in the class of manifold form sheets, to designate and provide the lines of separation by means 30 of short perforations of uniform length and separated from each other by spaces of equal or uniform length. Such arrangement has resulted in two objectionable features, first: such a large amount of paper is unsevered or 35 connected that the tearing operation requires the application of an amount of force such as not infrequently results in tearing the sheets at other places than along the line of the perforation, and second: when properly 40 torn along the perforated line, the resultant edge is rough and hence objectionable.

the separation will always be effected along a groups of short perforations. 45 definitely located line in which the resultant edge will not be of objectionable roughness. multiplicity of forms, said forms being of

In the annexed drawing:

50 tion.

scale a fragmentary portion of such sheet. of a plurality of long slits arranged in 105

as is customary, lines 1, at perforations Be it known that we, Arthur S. Gilman, which define the lines in which the separa- 55 Samuel C. Bennett, and Fred W. Kiesling, tion of the forms is to be effected. Instead citizens of the United States, residents of however, of being formed in the usual and of Ohio, have invented new and useful Im- sists, Figure 2, of groups 2, each consisting provements in Manifold Printed Forms, of of three or four short perforations each 60 which the following is a specification, the about $\frac{1}{16}$ inch in length and separated principle of the invention being herein ex- from each other by spaces of similar length; contemplated applying that principle, so as tending about six inches; these groups of perforations and slits occurring alternately 65

It will be noted from the above that the adjacent perforations and slits are separated from each other by a very small quantity of paper, and by reason of the employment of 70 the long slits and the small groups of short perforations, the number of connections becontiguous forms or sections of the sheets tiguous sections are therefore detached from may be readily effected, and at the same time each other throughout the very great major 75 provide sufficient connection between the portion of their sides, so that a small amount said forms or sections to hold them in ac- of force is necessary to effect their complete

The perforations are formed by means of suitable cutting devices, well known to those 80 skilled in the art, such as rotary knives, so that the edges of the slits are made smooth. These slits constitute the major portion of the edges of the sections and hence the general character of these edge portions will be 85 smooth as is required.

What we claim is:

1. A multiple form sheet comprising a multiplicity of forms, said forms being of varying character transversely but of re- 90 current character longitudinally, the recurrent longitudinal forms being separated from each other laterally by means of lines of perforations and slits, each line consist-The specific object therefore of our inven- ing of a plurality of long slits, the material 95 tion is to provide an arrangement whereby between the slits being perforated by

2. A multiple form sheet comprising a varying character transversely but of re- 100 Figure 1 represents a plan of part of a current character longitudinally, the remanifold form sheet embodying our inven- current longitudinal forms being separated from each other laterally by means of lines Figure 2 represents upon an enlarged of perforations and slits, each line consisting In carrying out our invention we provide groups, the material between each group of

slits being perforated by groups of short ing of alternately occurring long slits and perforations, the groups of short perfora- short perforations, the adjacent slits and

3. A multiple form sheet comprising a 5 multiplicity of forms, said forms being of varying character transversely but of recurrent character longitudinally, the re-current longitudinal forms being separated from each other laterally by means of lines 10 of perforations and slits, each line consist-

tions and slits occurring alternately. perforations being separated from each other by a very small amount of the material on which the forms are printed.

Signed by us, this 24th day of April, 1920.

ARTHUR S. GILMAN. SAMUEL C. BENNETT. FRED W. KIESLING.