Feb. 19, 1963 E. J. KUMP 3,077,666

METHOD OF MAKING DRAWINGS

Filed Oct. 10, 1958 2 Sheets-Sheet 1

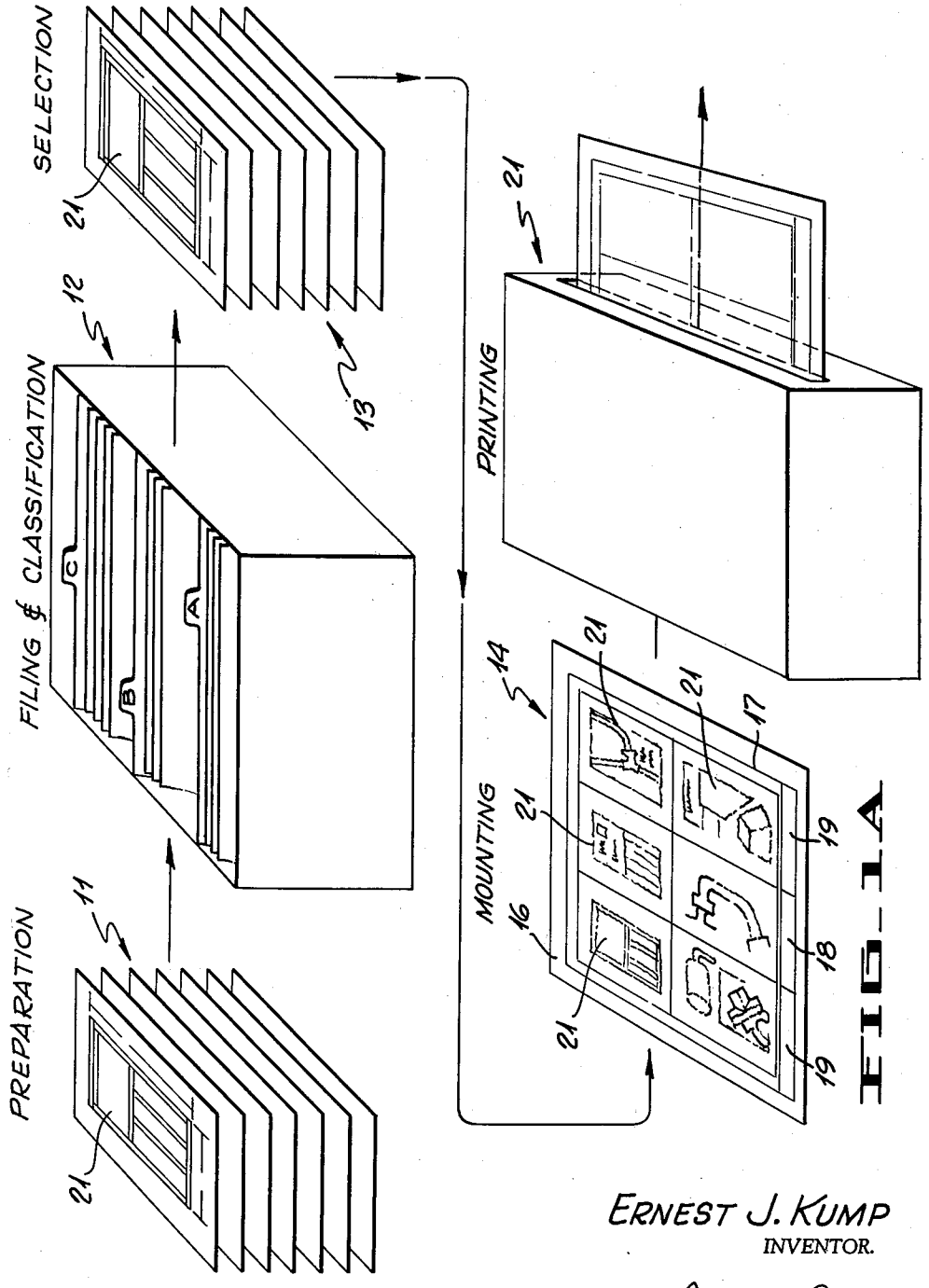


FIG-1A

ERNEST J. KUMP
INVENTOR.

BY Fleit, Gipson & Swain
ATTORNEYS

Feb. 19, 1963 E. J. KUMP 3,077,666

METHOD OF MAKING DRAWINGS

Filed Oct. 10, 1958 2 Sheets-Sheet 2

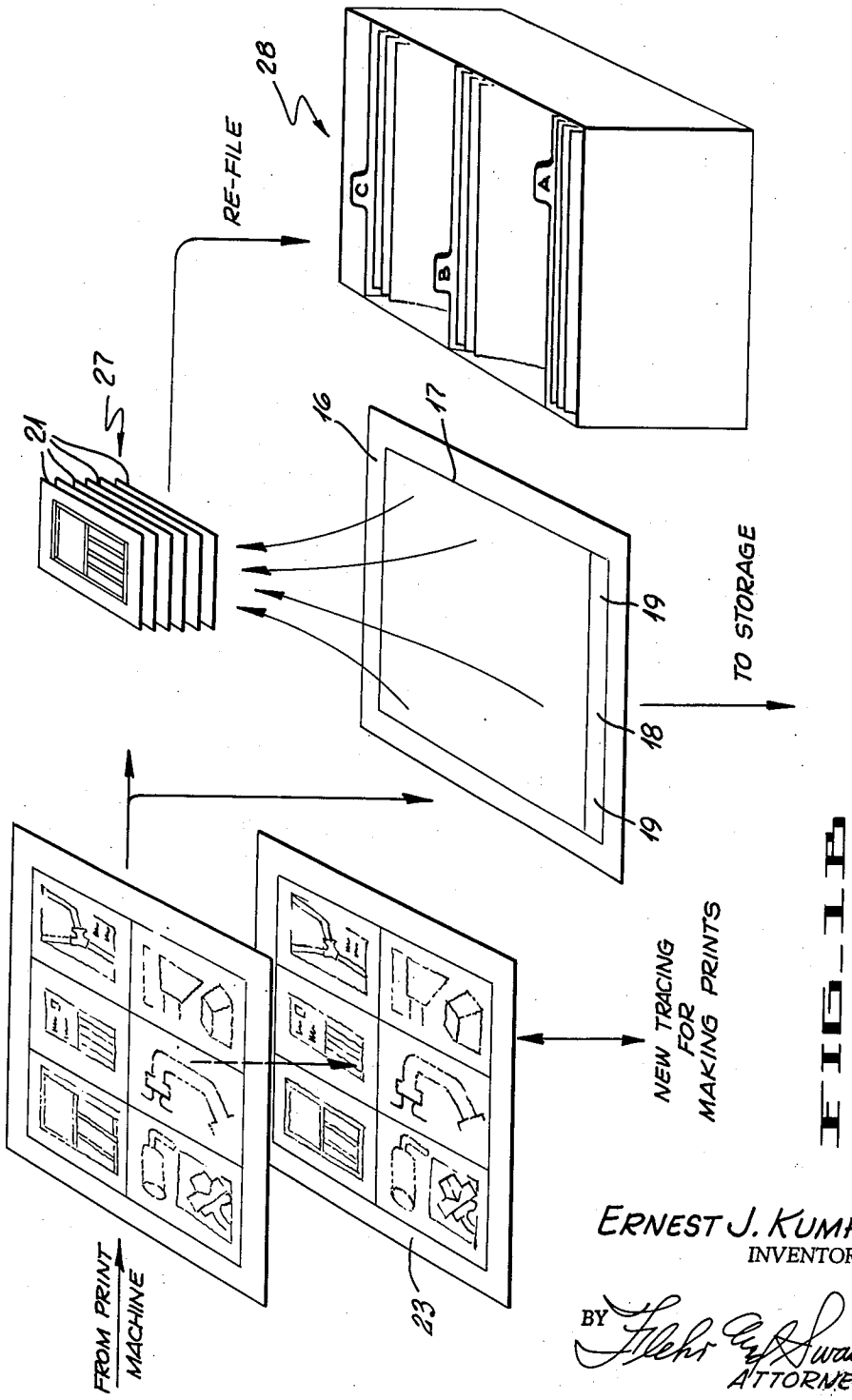


FIG. 1

ERNEST J. KUMP
INVENTOR.

BY Fleht & Swain
ATTORNEYS

United States Patent Office 3,077,666 Patented Feb. 19, 1963

3,077,666

METHOD OF MAKING DRAWINGS

Ernest J. Kump, 26484 Arastradero Road, Los Altos, Calif.

Filed Oct. 10, 1958, Ser. No. 766,444
2 Claims. (Cl. 33—1)

This invention relates generally to a method of making drawings and more particularly to a method of making architectural drawings.

Many structures may be designed on a modular basis. This permits making several embodiments of each of the component parts. The modular parts may be combined in many different combinations to give different appearance to buildings and different functional relationships within the building.

In modular architecture, a building may be designed to receive a variety of wall panels. Wall panels with different appearances may be designed, for example, panels which have a full or partial window, solid panels, and combinations of the two. Each of the panels can be made with different materials. Thus there is a wide variety of choice in the external appearance of the building and of the function performed by each of the panels. For example, certain of the panels may include windows which may open and close to provide ventilation, and others may include doorways and entrance ways.

If a new set of original drawings is required for each building many hours are spent in the preparation of the drawings. Even if the drawings were merely traced from previously prepared drawings, a relatively long time would be spent.

It is a general object of the present invention to provide an inexpensive method of making original drawings.

It is another object of the present invention to provide a method of making original drawings which is rapid, easy to carry out, and inexpensive.

It is another object of the present invention to provide a method of preparing drawings in which master modular drawings are prepared and indexed. Original tracings are prepared by selecting the desired modular drawing and making a composite master drawing.

These and other objects of the present invention will become more clearly apparent from the following description when taken in conjunction with the accompanying drawing presented as FIGURE 1A–B.

In carrying out the invention the modular structure is first designed whereby there may be interchangeability of component parts, such as walls, windows, and the like. Building structures based on modular principles are described in my copending applications; Serial No. 673,922, filed July 24, 1957, and Serial No. 665,462 filed June 13, 1957. The building structures described in said applications are designed to accommodate various exterior wall panels to give the building different facades, to accommodate different partition walls, and to provide a variety of functional relationships within the building.

The wall panels, interior walls, heating elements, vents, etc., may be drawn as original tracings on cloth tracing paper or other suitable paper. According to the present invention each of the components is drawn on a modular sheet of predetermined size. The sheets are of sizes which are multiples of one another so that they may be placed in cooperative relationship to form composite large sheets.

Referring to the drawing the first step 11 is the preparation of sheets of modular drawings. The drawings are then filed and classified according to building parts or other classification, step 12. Thus all wall panels having windows are classed in one class while wall panels including doors under another class etc. Other component modular drawings of cabinets, room dividers, and the like are filed and classified.

When an original drawing for a particular job is required the appropriate modular drawings are selected from the file, step 13, and the modular drawings are mounted on one or more larger sheets, step 14. The sheet 16 is preferably a transparent sheet of substantial thickness made of a suitable plastic such as acetate. The sheet may include an inked border 17, title block 18 and other blocks 19. The selected modular drawings 21 are arranged on the sheet one next to the other to form a composite sheet. The drawings are detachably mounted on the transparent sheet. The composite sheet is then put through a suitable process such as a photographic printing process, step 21. An original tracing 23 is formed. The original tracing 23 is suitable for the new job since the appropriate title and preselected modular drawings appear thereon. The modular drawings 21 are dismounted, step 27 and then refiled, step 28. The transparent sheet 16 is then available for mounting a new set of modular drawings to form a new original tracing.

In the illustrative example the various modular drawings are all on the same size. Six are shown mounted on the transparent sheet 16. However, it is understood that the drawings may have suitably chosen dimensions whereby modular drawings of various sizes may be mounted on the sheet 16. For example, a drawing having a length two times the width of the drawings illustrated would be suitable for a mounting on the sheet 16. Thus two larger modular drawings could be mounted with two of the smaller modular drawings 21.

It is seen that an improved process for preparing original drawings is provided. A modular building is designed with the various component parts in a modular scale. A variety of drawings are prepared for the various components, classified and filed. For any particular building the desired environment, appearance and functionality may be obtained by selecting appropriate ones of the prepared modular drawings.

It is seen that the process of preparing new originals once the modular drawings have been prepared and classified is relatively simple. With a good classification system and enough variety of components a tremendous freedom of design is provided. It is foreseeable that a building meeting a predetermined set of requirements could be designed with a business machine.

I claim:

1. A method of preparing architectural drawings for buildings of the type which are designed on a modular basis comprising the steps of preparing, on sheets of sizes which are whole number multiples of one another, detailed modular drawings of component parts of a building, classifying and filing said detailed modular drawings, selecting desired ones of said modular detailed drawings, detachably mounting said selected drawings one next to another on a transparent sheet to form a composite sheet, and reproducing the composite sheet to form an original architectural drawing.

2. A method as defined in claim 1 together with the additional step of removing said detachably mounted drawings from the transparent sheet after the composite sheet has been reproduced.

References Cited in the file of this patent

UNITED STATES PATENTS

632,437	Bentley	Sept. 5, 1899
1,736,445	Jannenga et al.	Nov. 19, 1929
1,845,240	Cook	Feb. 16, 1932
2,545,409	McCall	Mar. 13, 1951
2,610,413	Dasey	Sept. 16, 1952
2,752,245	Hough et al.	June 26, 1956

OTHER REFERENCES

American Builder, "Modular Planning," September 1944, pp. 84, 85 and 100.