2 Sheets—Sheet 1.

R. SMITH.

Curve-Bodied Printing-Type.

No. 220,999. Patented Oct. 28, 1879.

FIG 1

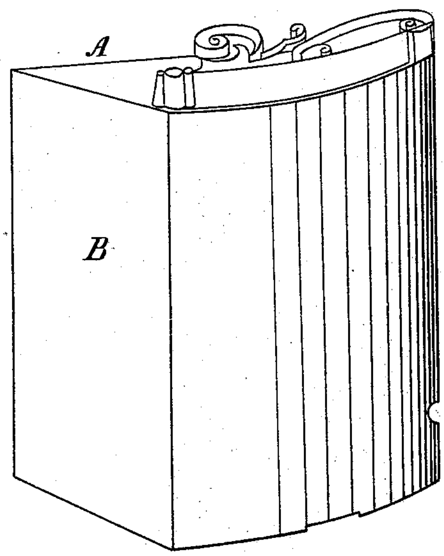
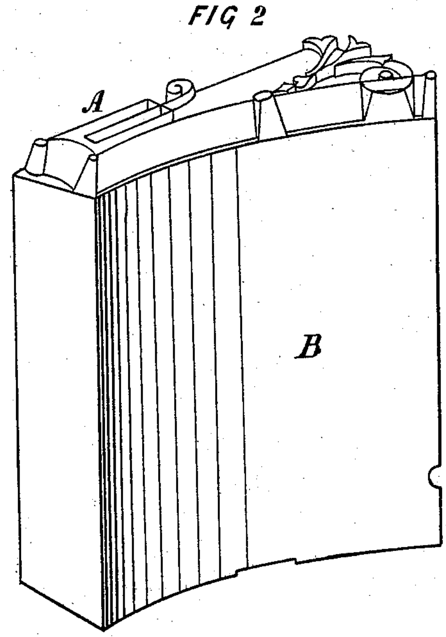


FIG 2



Witnesses

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Alex F. De Puy

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2 Sheets—Sheet 2.

R. SMITH.

Curve-Bodied Printing-Type.

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Fig 3

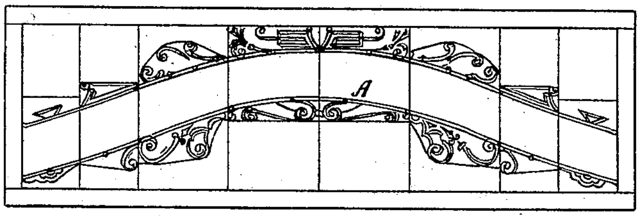
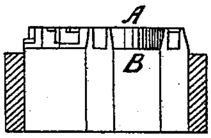


Fig 4



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UNITED STATES PATENT OFFICE.

RICHARD SMITH, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO MACKELLAR, SMITHS & JORDAN, OF SAME PLACE.

IMPROVEMENT IN CURVE-BODIED PRINTING-TYPES.

Specification forming part of Letters Patent No. **220,999**, dated October 28, 1879; application filed May 3, 1879.

To all whom it may concern:

Be it known that I, RICHARD SMITH, (assignor to MACKELLAR, SMITHS & JORDAN,) of the city and county of Philadelphia, Pennsylvania, have invented, made, and applied to use Improvements in Curve-Bodied Printing-Types; and I do hereby declare that the following is a full, clear, and correct description of my invention, reference being had to the accompanying drawings, making part of this specification, and to the letters of reference marked thereon, in which—

Figure 1 represents a type made in accordance with my invention. Fig. 2 represents a second or smaller type made in accordance with my invention. Fig. 3 is a top view of a form made up with my curved or elliptical-bodied type. Fig. 4 is a sectional view of Fig. 3.

In the drawings like parts of the invention are pointed out by the same letters of reference.

The nature of my invention consists in a printing-type provided with a curved or elliptical body, as hereinafter described.

The object of the invention is, by constructing printing-types with curved or elliptical bodies, to enable the compositor or party using the types to readily form from the types curved, elliptical, or angular lines, while the types composing them shall properly justify, and closeness of register in the working of the types shall, as a sequence, result.

Heretofore, printing-types have been cast upon square bodies, or the faces have been cast separately and soldered upon the upper side of a square body.

When it has been desired to form from these types curved, elliptical, or angular lines, brass rule, in some cases, has been bent into the curved, elliptical, or angular form, and between these strips of brass rule the types provided with square bodies have been placed and held in a body, so to speak, of plaster-of-paris, clay, or some such substance; or a mortised block of wood has been employed, within the mortise of which the types have been placed and held by suitable devices. Such jobs have called for the employment of additional time, labor, and expense on the part of the workman, and required skill in their execution.

In the drawings, A shows what may properly be termed the "type," and B is the body supporting it. This body is, as already stated, cast with the curved or elliptical form, as clearly shown in the drawings, in which a large (so to speak) and a smaller type provided with such a body are shown.

The types, when placed together or composed to make a form, from the fact that the bodies upon which they are cast are in a curved or elliptical form, make the curved, elliptical, or angular lines, which heretofore have been produced by brass rule bent into the desired shape for this purpose.

In the formation of borders, ornamental surroundings for printed matter, for the formation of head and tail pieces in the class of printing known as "book-work," the advantages of my invention will probably be more appreciated, although it can be applied to the manufacture of all styles of type, irrespective of the use to be made of them.

Having now set forth my invention, what I claim as new is—

A printing-type cast with a curved or elliptical body, substantially as and for the purpose specified.

RICHARD SMITH.

In presence of—

GEO. WM. NATHAN,
G. LANE MORLEY.