

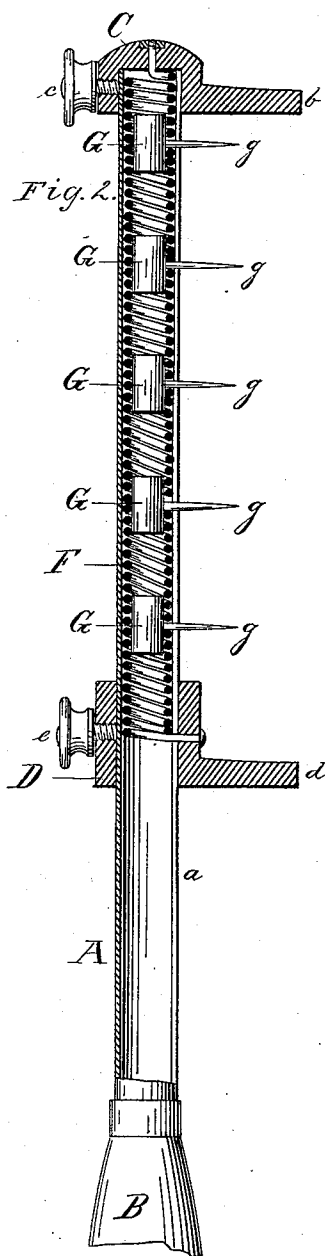
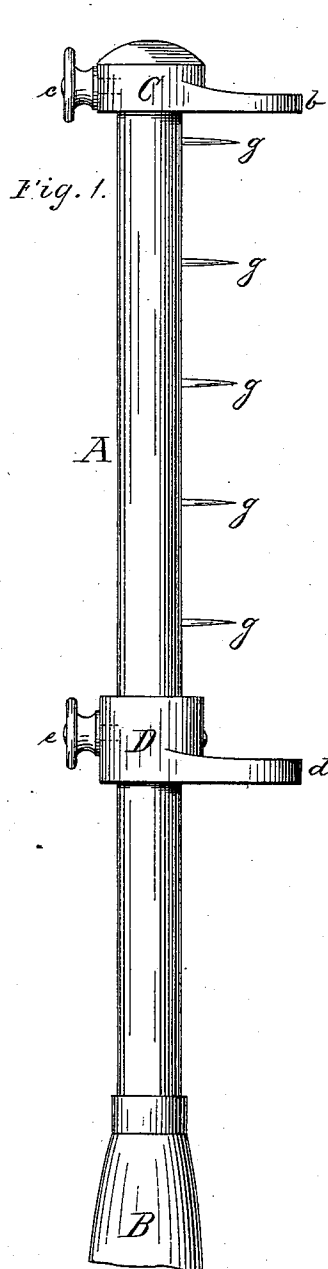
(No Model.)

J. J. GEIGER.

GAGE FOR BOOKBINDERS AND OTHERS.

No. 253,526.

Patented Feb. 14, 1882.



Witnesses:
Adolph Lotz
J. W. Kaschagen

Inventor:
John J. Geiger
By *Wm. B. Lotz*
attorney

UNITED STATES PATENT OFFICE.

JOHN J. GEIGER, OF CHICAGO, ILLINOIS.

GAGE FOR BOOK-BINDERS AND OTHERS.

SPECIFICATION forming part of Letters Patent No. 253,526, dated February 14, 1882.

Application filed November 1, 1881. (No model.)

To all whom it may concern:

Be it known that I, JOHN J. GEIGER, of Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Gages for Book-Binders and Others; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The object of this invention is to produce a gage with which to lay out and mark the backs or covers of books for printing or embossing the stripes, ornaments, or titles thereon, said gage being arranged to automatically adjust the measuring-points proportional to the entire height of the book to which it is to be set; and the invention consists of the devices and combination of devices hereinafter described and specifically claimed.

In the accompanying drawings, Figure 1 represents an elevation, and Fig. 2 a longitudinal section, of the gage.

Like letters represent corresponding parts in both the figures.

A denotes a tube that is longitudinally slotted at *a*, and B is a suitable handle that is rigidly secured upon one end of said tube.

C is a head-piece having the gaging-arm *b*, and being removably secured upon the opposite end of tube A by a set-screw, *c*.

D is a sleeve that carries the other gaging-arm, *d*, and is arranged to slide upon the tube A, and is adjustably secured thereon by a set-screw, *e*. A coiled spring, F, which enters said tube A, is detachably secured at one end to the head C, and its other end is rigidly secured to the sleeve D, so as to be expanded and contracted with the several adjustments of said sleeve D.

G G are a series of cylindrical plugs, each carrying a point, *g*. These plugs are inserted into the spring with their points protruding from between the coils, and can be moved to any desired position by winding them in either direction, like a nut upon a screw. These points *g* project through the slot *a* of tube A, in which they will slide with the expansion

and contraction of spring F.

The sleeve D is to be so set that the distance between its arm *d* and the arm *b* of head-piece C is equal to the height of the book-cover, when the coils of the spring will uniformly accommodate themselves to that required distance, and will shift and hold the points *g* a distance apart that is always proportional to the entire length, so that a book-binder, after once adjusting the points to occupy the requisite position between the coils of the spring, can rely upon this gage to be correct for all sizes of books that are to have imprinted upon their backs the same number of stripes, &c., at intervals proportional to their entire height.

For adjusting the distance from each other of points *g* the head-piece C is removed by releasing set-screw *c*, when by shifting the sleeve D the spring is pushed out of the tube, and for removing and inserting a point the spring is detached from head-piece C, when a plug, G, with its point *g*, can be wound into the spring from the end of the same.

It will be readily seen that a gage like the one described is very handy for the desired purpose, is simple in its construction, is easy to adjust, and when once adjusted it is always ready for all sizes of books, and is therefore a desirable implement for every book-binder.

This instrument can be used with advantage not only by book-binders, but in bakeries also, where it will be well adapted for dividing a sheet of dough, and in other trades where an equal dividing of different-sized material is desirable.

What I claim is—

1. A gage for book-binders and others, having points that are held between the coils of a spring and are guided in a slotted tube, so as to be moved proportionally with the expansion of said spring, substantially as set forth.

2. The combination, with a gage consisting of the slotted tube A, head-piece C, and adjustable sleeve D, of a coiled spring, F, inserted in said tube and connected to the head-piece and sleeve, and of cylindrical plugs G, inserted in such spring, and having points *g*, that project from between the coils of the spring and through the slot of the tube, all substantially as described and shown.

3. The combination with the slotted tube A, having handle B, removable head-piece C, with gaging-arm *b*, and adjustable sleeve D, with gaging-arm *d*, of coiled spring F and plugs
5 G, with points *g*, the whole being constructed and arranged substantially as and for the purpose described and shown.

In testimony that I claim the foregoing as my invention I affix my signature in presence of two witnesses.

JOHN J. GEIGER.

Witnesses:

F. W. KASEHAGEN,
ADOLPH LOTZ.