

No. 782,726.

PATENTED FEB. 14, 1905.

W. G. CRAMER.
COMBINED PENCIL AND SHARPENER.

APPLICATION FILED MAR. 19, 1904.

Fig. 1.

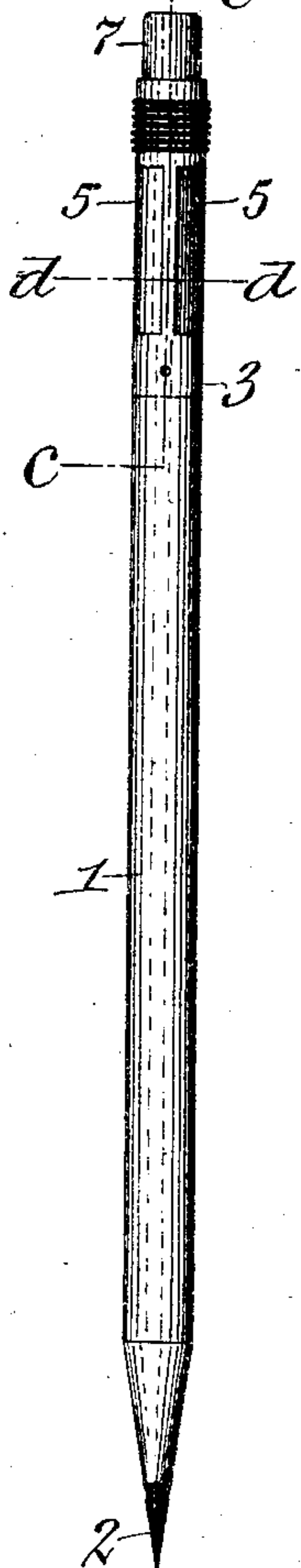


Fig. 2.

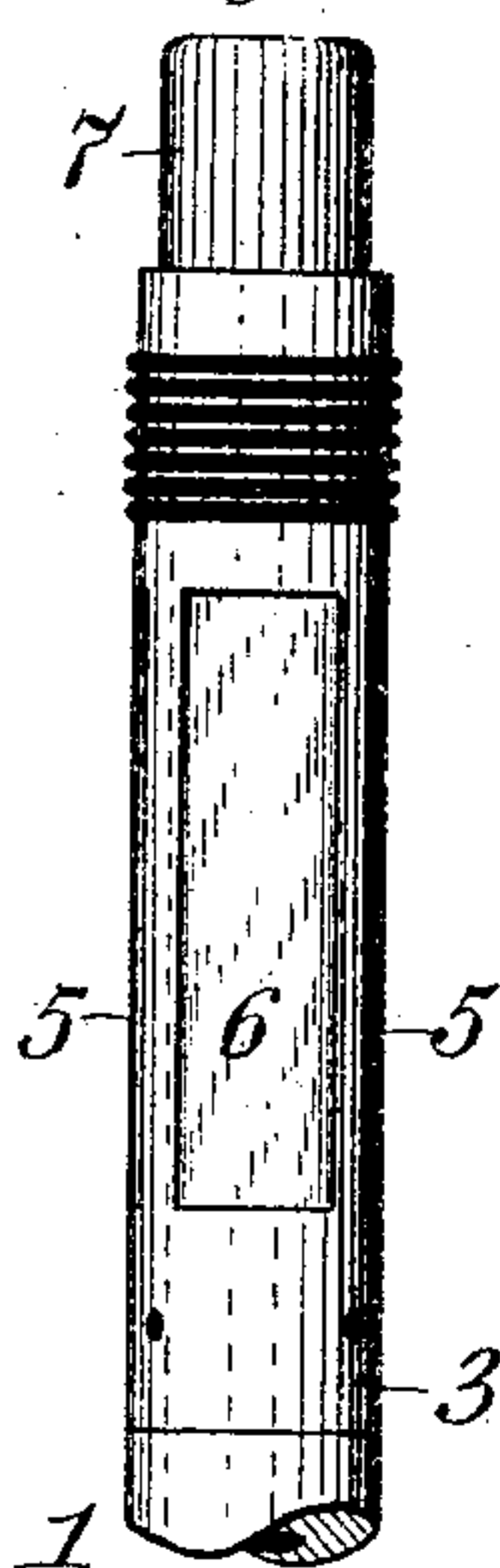


Fig. 3.

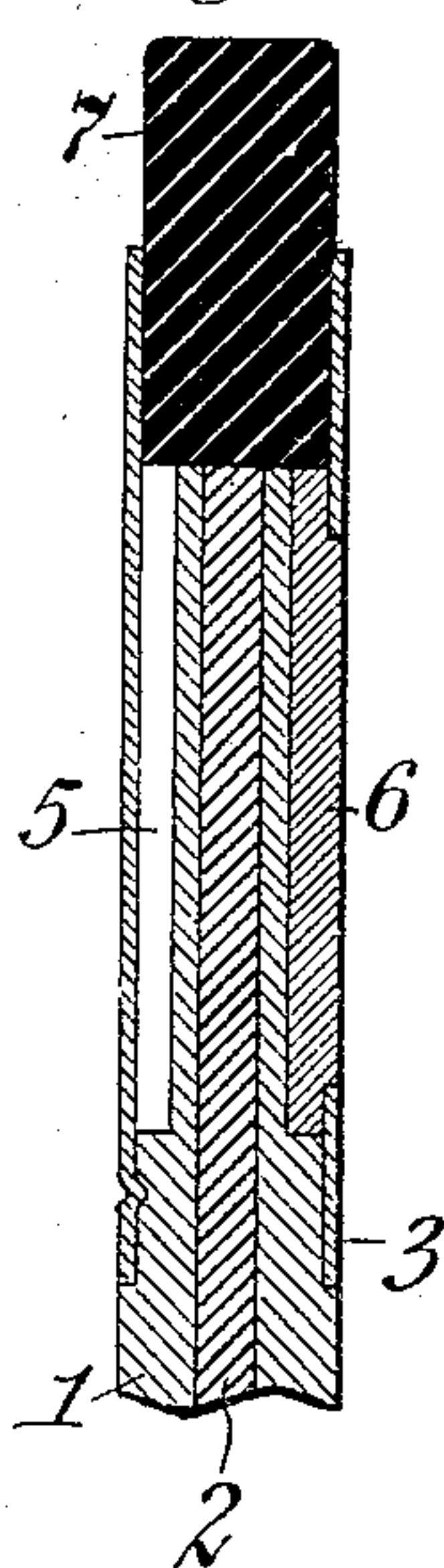


Fig. 4.

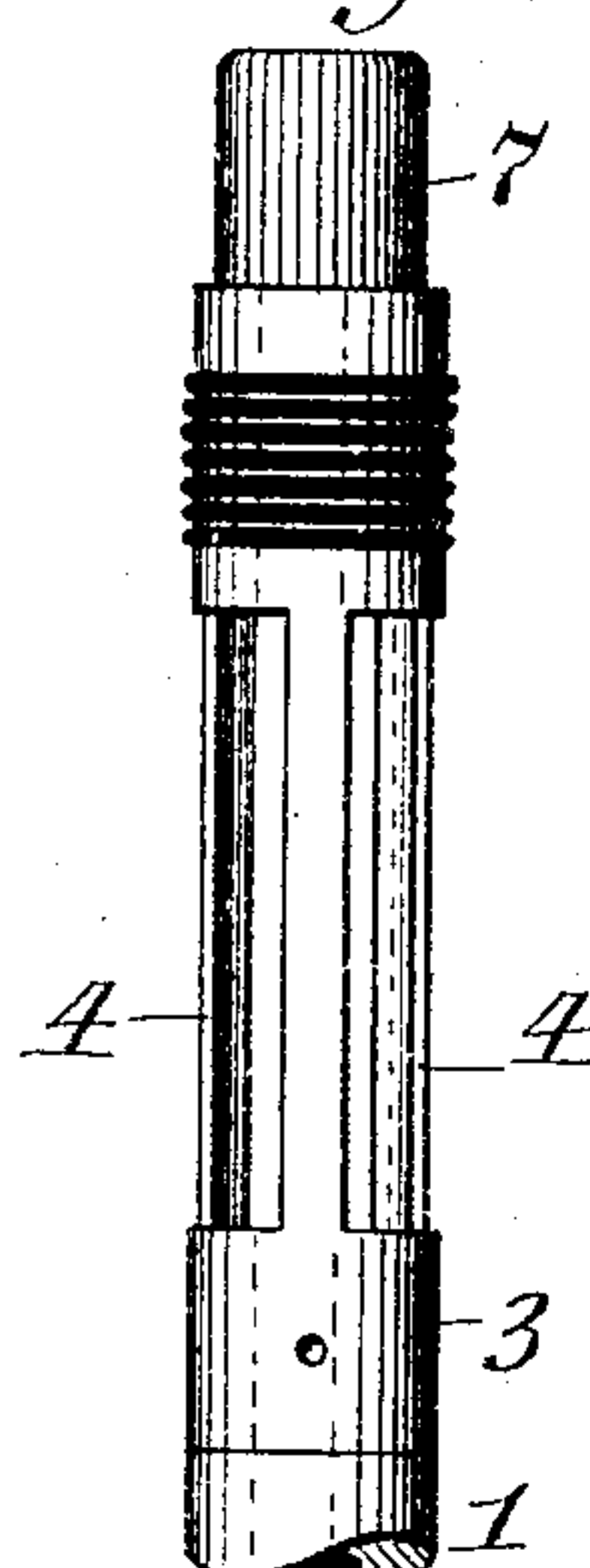


Fig. 5.

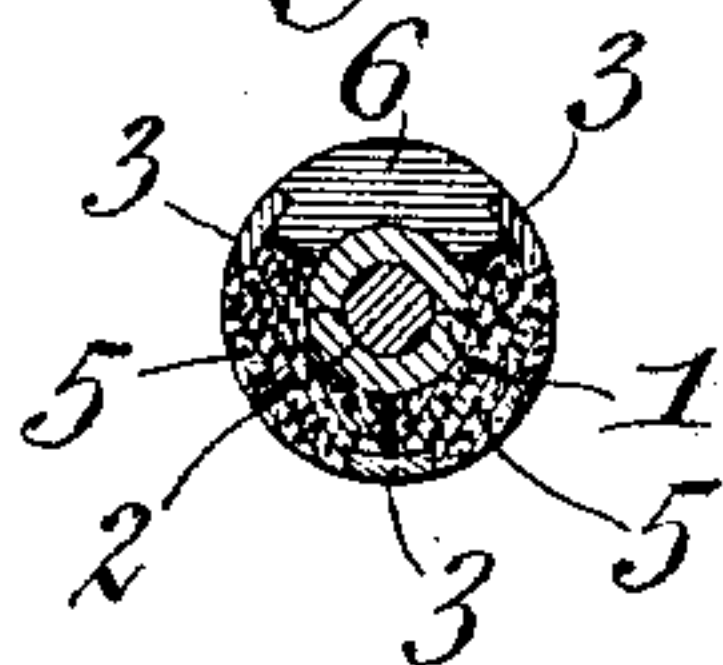


Fig. 6.



Witnesses:

Robert W. Wehnecht
Louis W. Gratz

William G. Cramer
Inventor
by Geyer & Popp
Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM G. CRAMER, OF BUFFALO, NEW YORK.

COMBINED PENCIL AND SHARPENER.

SPECIFICATION forming part of Letters Patent No. 782,726, dated February 14, 1905.

Application filed March 19, 1904. Serial No. 198,884.

To all whom it may concern:

Be it known that I, WILLIAM G. CRAMER, a citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented a certain new and useful Improvement in Pencils or Similar Devices, of which the following is a specification.

This invention relates to an improved pencil or similar device which is provided with an abrading portion for the purpose of sharpening penknives or the like.

The object of the invention is to provide an easy, quick, and convenient means for sharpening the edges of dull penknives, which in turn are employed to sharpen the pencil having the abradant. It is obvious, however, that the abradant can be conveniently utilized as a grinding medium for many purposes, the pencil serving as a handle to operate the same.

The invention also relates to certain details of construction, all of which will be fully and clearly hereinafter described and claimed, reference being had to the accompanying adaptation of the invention, in which—

Figure 1 is a side elevation of a pencil provided with the improvement. Fig. 2 is an enlarged fragmentary side elevation thereof with the pencil turned to expose a full face view of one of the abradants. Fig. 3 is a fragmentary enlarged longitudinal section on line *c c*, Fig. 1. Fig. 4 is an enlarged fragmentary view of the upper portion of the pencil with the abradants removed. Fig. 5 is a transverse section on line *d d*, Fig. 1. Fig. 6 is a detached view of one of the abradants.

In referring to the drawings for the details of construction like numerals designate like parts.

1 indicates the body of the pencil, having the usual lead 2.

3 is a sleeve or ferrule applied to the unsharpened end of the pencil and provided with one or more openings 4, preferably of rectangular form, and 5 5 and 6 are plates of abrading material seated in the openings of the ferrule and exposed through the same, so that they may be used to sharpen a penknife or other article. In the construction shown in the drawings the unsharpened end portion of the pencil is recessed or reduced

and the abrading-plates are curved or segmental and rest against the same. The outer or face portion of each plate is constructed to fit into or project through the corresponding opening of the ferrule, while its inner or back portion is larger than the opening to prevent outward displacement of the plate therein. Inward displacement of the plate is prevented by the contiguous portion of the pencil or equivalent retaining member inserted in the ferrule.

The plates 5 5 and 6 may all be formed of or faced with abrading material, such as emery or a composition containing emery, or one or more of the plates may be formed of a suitable polishing material—such, for instance, as leather. In the drawings three plates are shown, two of which, 5 5, are of abrading material, while the other, 6, is of polishing material. The purpose of the polishing-plate is to smoothen or finish the article ground or sharpened on the abrading plate or plates. The plates or their faces may be flat or rounded, as desired.

A rubber eraser 7 may be fitted in the outer end of the ferrule, as shown.

I claim as my invention—

1. In a pencil attachment, the combination of a sleeve or ferrule having an opening in its side, an abrading-plate seated in said opening and enlarged toward its inner or back portion to prevent outward displacement thereof in the opening, and means for holding the abrading-plate against inward displacement in said opening, substantially as set forth.

2. In a pencil attachment, the combination of a sleeve or ferrule having an opening in its side, an abrading-plate having its outer or face portion seated in said opening and its inner or back portion constructed of greater length than the opening to prevent outward displacement of the plate therein, and a retaining member arranged in the ferrule and bearing against the enlarged back of the plate, substantially as set forth.

3. In a pencil attachment, the combination of a sleeve or ferrule having an opening in its side, an abrading-plate of greater length than said opening having its outer or face portion reduced to fit into the opening, and a retaining

member arranged in the ferrule and bearing against the back of the plate, substantially as set forth.

4. In a pencil attachment, the combination
5 of a sleeve or ferrule having an opening in its side, an abrading-plate of greater length than said opening having its outer or face portion reduced to fit into the opening, and a pencil
10 arranged in the ferrule and bearing against the enlarged back of the plate, substantially as set forth.

5. A pencil having a reduced portion, a plate of abrading material seated in said reduced portion and a ferrule fitted around the
15 reduced portion of said pencil and securing

said plate in position; said ferrule having an opening through which the abrading-surface projects and is exposed.

6. A pencil having a reduced portion, a plurality of curved segmental plates, one at least
20 of which is of abrading material around said reduced portion and a ferrule securing said segmental plates in position and having openings through which the abrading-surface is exposed.

WILLIAM G. CRAMER.

Witnesses:

ABRAM DURR,

A. J. SANGSTER.