

**EUGENE DIETZGEN CO.**

*Factory and Executive Offices*

**Chicago 14, Illinois**

**Your**

**DIETZGEN**

**slide rule**

**DIETZGEN**

**Sales Offices and  
Display Rooms**

**CHICAGO**

2425 N. Sheffield Avenue  
22 W. Madison Street

**NEW YORK CITY**

218 East Twenty-third Street  
14 East Thirty-ninth Street

**SAN FRANCISCO**

521 Market Street

**NEW ORLEANS**

318 Camp Street

**LOS ANGELES**

1047 South Grand Avenue

**WASHINGTON**

407 Tenth Street, N. W.

**PITTSBURGH**

339 Boulevard of the Allies

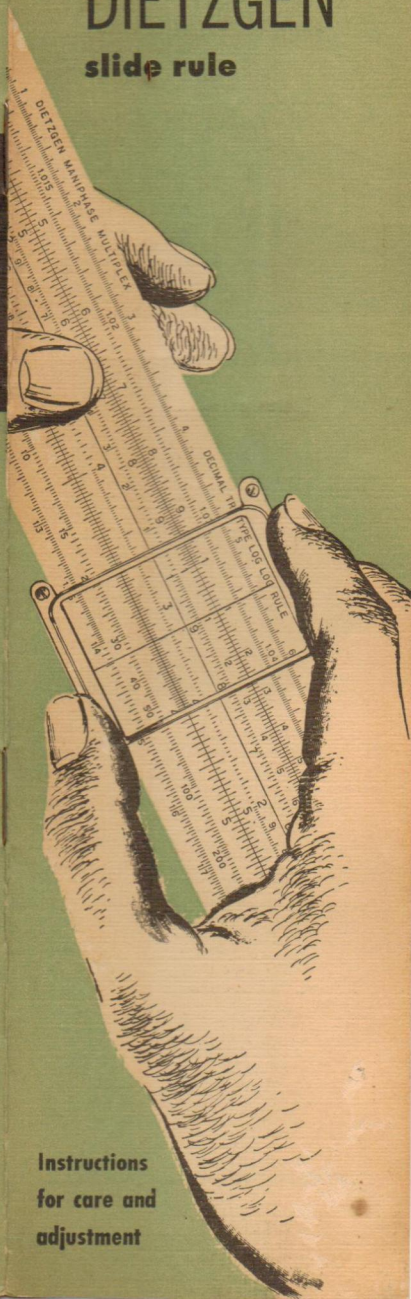
**PHILADELPHIA**

1722 Sansom Street

**MILWAUKEE**

611 North Broadway

*Dealers in all principal cities*



**Instructions  
for care and  
adjustment**



**Your  
DIETZGEN  
Slide  
Rule**

is an *unusual* precision instrument; given reasonable, careful handling it will furnish you a lifetime of trouble-free service under ordinary conditions with little or no special attention. It has been constructed of the finest materials possible of procurement; manufactured by experienced craftsmen with the finest of high-precision equipment. Many of the world's outstanding engineers today are using the Dietzgen Slide Rules which they bought as students.

**your DIETZGEN  
Slide Rule  
will serve  
faithfully for years  
if you . . .**



**When not in actual use,  
always keep your  
rule in its case**

You will thus not only protect it from accidents but this good habit will go a long way toward keeping your slide rule always clean and smooth-running.

**Never abuse  
your slide rule**

It is truly a precision instrument; respect it as such. Protect it from extremes in heat, humidity, and handling. No thinking person would keep a fine camera on top of a radiator or in a damp basement and expect it to perform properly. Give your slide rule as much consideration. Don't *throw* it into a drawer or bang it on a desk, even when it is in its case.

**Never wash  
your slide rule**

If necessary to clean the faces of your rule, wipe them with a *slightly* dampened cloth . . . and be careful to keep even this slight moisture away from all bare wood surfaces like the slide guides and the ends of the rule. To clean the under side of the indicator glass, place a slightly moistened piece of paper on the face of the rule and then *gently* rub the indicator over it.

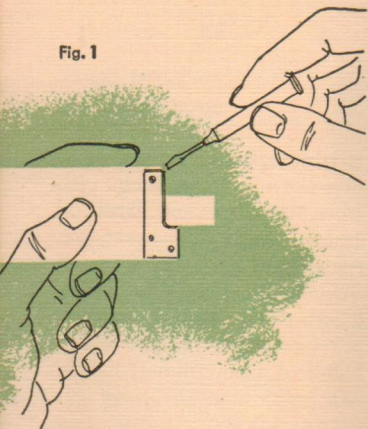
**Keep your slide rule  
properly adjusted**

Adjustments are rarely needed, but they should not be neglected *when* needed. If the slide is too tight, it will not only make the rule difficult to use but it causes unnecessary frictional wear. If it is too loose, it not only interferes with accuracy but it causes uneven wear of the guides for eventual permanent misalignment. Keep *your* rule adjusted.

• • •

Before making any adjustment of your slide rule, be sure an adjustment is really needed. Changes in temperature and humidity may cause the slide to be temporarily tight. You can correct this by applying a small amount of talcum powder to the slide guides. Your slide rule was carefully adjusted at the factory; hence you should always try freeing the slide movement with talcum *before* altering the adjustment of your rule.

Fig. 1



**If the slide is too tight . . .** First, pull the slide to the right and to the left until you determine the position at which it is the tightest. Leave the slide at this tightest position and loosen the screw in the end-plate *at the end of the rule from which the slide projects . . .* as shown in Fig. 1 above. This will usually relieve the internal pressure and it is only necessary to retighten the

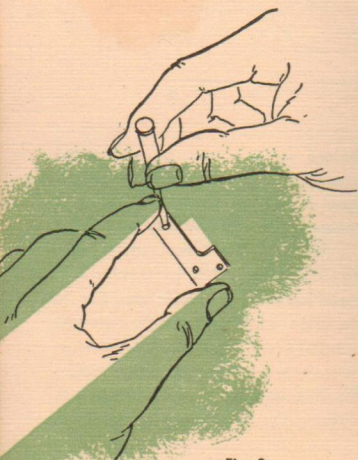


Fig. 3

screw. If the sticking persists, however, it indicates that the internal pressure is not sufficient to automatically reposition the upper bar of the rule when the screw is loosened . . . and the operation should be repeated with the thumb exerting a slight upward pressure on the extended slide when the screw is retightened . . . as shown in Fig. 2 seen immediately below.

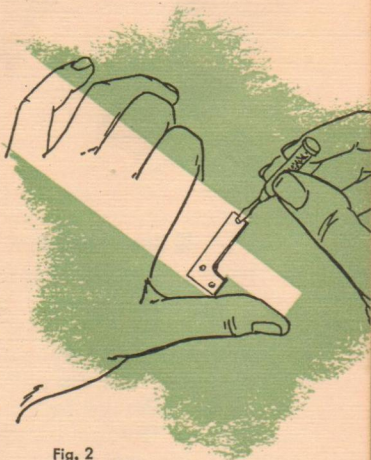


Fig. 2

**If the slide is too loose . . .** Loosen the screw in *one* end-plate, and retighten it while the rule is squeezed *gently* between the thumb and forefinger . . . as shown in Fig. 3, at left. Then do the same thing at the other end of the slide rule. Do not loosen the screws in *both* end-plates at the same time.

## If the indicator is out of alignment . . .



Fig. 4

## If the upper and lower SCALES are not aligned . . .

Slightly loosen the screws in both end-plates. Set the slide so that the index graduation (the number "1") on the C scale is exactly over the index graduation (the number "1") of the D scale. Now, holding the rule firmly so that the slide will not move, tap the end of the upper bar of the rule in the direction required to bring the index graduations of the CF and DF scales exactly in line . . . as shown in Fig. 4 above. Then tighten the screws in the end-plates alternately about a quarter turn at a time. Tighten all screws tightly to avoid recurrence of the misalignment.

To check the alignment of your indicator, set the hair-line exactly on the index graduation (the number "1") of the CF and DF scales. At this one setting, the hair-lines of the indicator should coincide with the index graduation of every scale on both sides of the rule. If this test shows misalignment, loosen the four screws holding the indicator glass on the side of the rule where misalignment occurs, lightly press the edges of the indicator frame until alignment is obtained; then retighten screws while holding glass in its proper position . . . as shown in Fig. 5 below. Misalignment of indicator hair-lines on both sides of the rule at the same time rarely occurs. It *can* happen when a broken indicator glass is replaced. If it does, be sure to obtain alignment on one side of the rule *before* attempting to align the indicator on the other side; in other words, *never* attempt any adjustment with all *eight* indicator-glass screws loose at the same time.

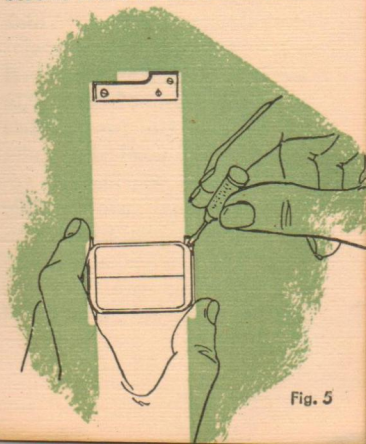
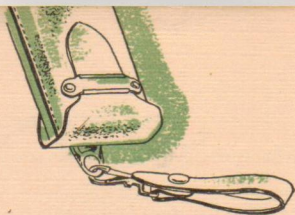


Fig. 5



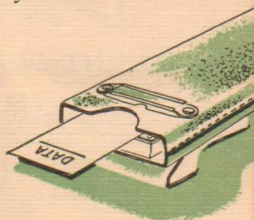
**extra CONVENIENCE**  
... the slide  
rule belt attachment

Many field engineers and students in engineering schools find it safer and more convenient to carry their slide rules suspended from their belts. The Dietzgen No. 1784 Slide Rule Belt Attachment is the perfect answer. By its ingenious design it eliminates need for mutilating the leather slide rule case with punched holes, rivets, etc. And

the Dietzgen Rule Carrying Attachment can be removed at any time, easily, simply, with the slide rule case unchanged in appearance or construction. This clever attachment simply slips in under the case cover flap between the rivets holding this flap to the rear of the case, is firmly secured in position by a spring steel strip that snaps into place. Snap-lock fastener permits easy removal of suspended case from the swivel, and easy replacement. Belt suspension strap has glove-type snap for quick attachment to belt and removal. Yes indeed—this is another *exclusive* Dietzgen feature, pioneered by Dietzgen, for *your* convenience.

**exclusively DIETZGEN**  
... the celluloid data slip  
that stays with your rule

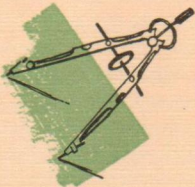
How do you convert cubic centimeters to cubic inches? Atmospheres to pounds per square inch? How do you find the circumference of an ellipse? Which is the cosecant of an angle? You have the answer to any of these questions, of course, in the back of the instruction book for *any* good slide rule; but where do you find the answers when you have the slide rule but not the instruction book? The answer is right in your slide rule case . . . if you have a Dietzgen Slide Rule!



Here is a handy accessory, if you ever saw one. Standard equipment with every Dietzgen Slide Rule is the convenient celluloid data slip that stays right in your rule carrying case, stays there when you pull out the rule, stays there until you tip up the case to have it slide out when you need it. Its patented size and shape fit your slide rule case without interfering in any way with your slide rule. It is another Dietzgen exclusive feature and extra value.

## ENGINEERS are discriminating buyers

### DIETZGEN Master Bow



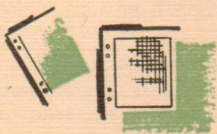
### DIETZGEN Field Books



### DIETZGEN Drawing Ink



### DIETZGEN Graph Sheets



### Handy Folding Drawing Table



The inevitable mark of a good engineer is his keen perception; his quick recognition of the genuine and of the substitute. Here are shown a few of the many items in which discriminating buyers insist on Dietzgen.

Dietzgen Drawing Instruments have long been recognized the world over as the finest available. The Dietzgen Master Bow is a most useful addition to any engineer's equipment; it is sturdier, most accurate, draws circles up to 9" diameter which experience shows covers 80% of all compass-range needs.

Dietzgen Engineers' Cross Section and Field Books are the recognized leaders; as fine in quality of paper, printing and binding as can be obtained. Available in Impregnated Canvas, Genuine Sheepskin, Imitation Leather, and Student Types of binding; loose leaf and spiral bound.

Dietzgen Drawing Ink is the finest modern science can produce. It flows freely, dries quickly, and is positively waterproof. Contains no chemicals injurious to instruments. Available in 10 brilliant colors and dense black. Standard  $\frac{3}{4}$  oz. bottles.

Dietzgen Graph Sheets are standard with many of the largest engineering organizations. Available in all needed graduations, divisions, and arrangements, on drawing paper, tracing paper, Ageproof Vellum, rulings in neutral green, clear orange, and non-printing blue.

The perfect portable drawing table, sturdy, rigid, lightweight, inexpensive. The top is a 20" x 26" pine drawing board with pencil and instrument rack; a rigid table 28" high when locked horizontal, ideal for typing; or a drawing table adjustable to any needed angle. Folds and locks to any assembly only 3" thick for storing in a closet or behind a door.

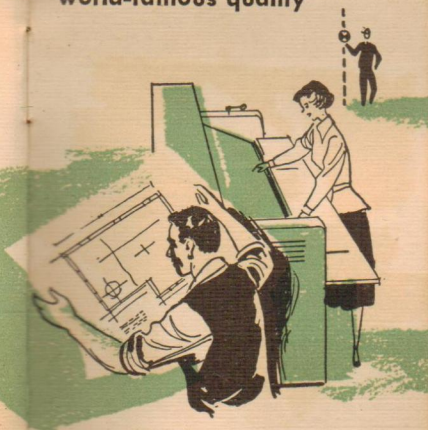
the name

**DIETZGEN**



Drawing Instruments.  
Special Ruling Pens.  
Special Bow Compasses.  
Beam Compasses.  
Proportional Dividers.  
Lettering Pens.  
Lettering Guides.  
Drawing Boards.  
T Squares.  
Triangles.  
Curves & Templates.  
Protractors.  
Scales & Rules.  
Pencils & Erasers.  
Drawing Inks.  
Thumb Tacks.  
Drafting Board Tape.  
Drafting Tables.  
Stools & Chairs.  
Drafting Machines.  
Straight Edges.  
Parallel Ruling Attachments.  
Drafting Files & Cases.  
Drawing Papers.  
Tracing Paper & Cloth.  
Ageproof Vellum.  
Printmaking Equipment.  
Blue Print Paper.  
VanDyke Paper & Cloth.  
Direct Positive Paper.  
Ammonia Process Paper.  
Reflex Print Media.  
Reproduction Vellum.  
Slide Rules.

identifies  
world-famous quality



Cross Section Papers.  
Graph Sheets.  
Blank Forms & Binders.  
Colored Crayons.  
Pencil Sharpeners.  
Acetate Protective Films.  
Protective Plastic Spray.  
Tracing Cloth Renewer.  
Tracing Cloth Cleaners.  
Drawing Transparentizer.  
Layout Sketch Pads.  
Artist & Illustration Boards.  
Surveying Instruments.  
Engineers' Transits.  
Surveyors' Transits.  
Mining Transits.  
Dumpy Levels.  
Wye Levels.  
Builders' Transit Level.  
Contractors' Levels.  
Alidades.  
Plane Tables.  
Tripods.  
Range Poles.  
Leveling Rods.  
Stadia Rods.  
Targets.  
Measuring Tapes.  
Field Books.  
Map Measures.  
Planimeters.  
Pantographs.  
Mechanical Integrators.  
Compasses & Barometers.