Set 4 on C to 96 on D, then set hairline to 6 on C/I. Read 4, answer under hairline on D. All movements this time were to left from 96.

TO FIND THE SQUARE OF A NUMBER
for example the square of $24 = 576$

Set the cross rider hair on reverse side of rule at 24 on scale D which is the third scale from the outer circumference, and read 576 on scale A which is the second scale from outer circumference.

TO FIND THE SQUARE ROOT OF A NUMBER
for example the square root of $42 = 6.48$

Set the rider cross hair at 42 scale A, which is the second scale from the outer circumference and read 6.48 on Scale D which is the third scale from the outer circumference.

TO FIND THE SINE OF AN ANGLE
for example sine $30^\circ = 0.5$

Set cross hair on reverse side of scale on 30 of first scale and read 0.5 on second scale.

TO FIND THE TANGENT OF AN ANGLE
for example tan $20^\circ = 0.364$

Set cross hair on 20 on fourth scale from outer circumference on reverse side of rule and read 0.364 on third scale from outer circumference.

TAVELLA SALES COMPANY
25 WEST BROADWAY
NEW YORK, N.Y.
INSTRUCTIONS ON THE OPERATION
OF THE MASCOT VEST POCKET
SLIDE RULE

Mechanically this rule works scale against
scale in the same manner as the ordinary
straight slide rule and any one familiar
with the conventional type of slide rule can
work the MASCOT.

It is operated by placing the thumb on
top disc and revolving it clockwise or contra
clockwise until factors are in desired rela-
tion to each other as indicated in following
paragraphs.

TO MULTIPLY TWO NUMBERS
For example $5 \times 6 = 30$

The scale on outer ring is for LOGARI-
THMS, and is not used in ordinary multi-
plication and division. The second scale in
is usually known as the “D” Scale and is
used in multiplication, division and propor-
tions.

Set No. 1 of the inner revolving scale un-
der 6 of D scale. Above 5 of the inner C
scale read the product 30 on the D scale.
Likewise on the outer D scale over each
reading of the inner C scale will be found
the product of that reading by 6.

TO DIVIDE ONE NUMBER
BY ANOTHER
for example $56.5 \div 2.5 = 22.6$

Set No. 1 of the inner revolving scale
(“C” Scale) under 2.5 on the outer scale
(“D” Scale). Under 56.5 on the “D” Scale
read 22.6 on the inner “C” scale. (Note —
after the slide is set, the hair line of the
rider may be set on 56.5 of outer “D” Scale
to assist in reading 22.6 on inner “C” Scale.

TO FIND A NUMBER BEARING A
CERTAIN RATIO TO ANOTHER
NUMBER
for example $7 + 6 \times 36 = 42$

Set No. 6 of inner revolving “C” Scale
under 7 of the outer “D” scale. Over 36 of
inner “C” scale read 42 on outer “D” scale.
This illustrates the combination of multi-
plication and division into a single opera-
tion. Note that the 6 may be set to either
of the factors of 7 or 36, whichever will re-
quire the least turning of the dial, and the
answer will be found opposite the other
factor.

TO FIND THE LOGARITHM OF A
NUMBER
for example $\log 4.59 = 0.662$

Set cross hair at 4.59 of second (“D”
scale) from outer circumference and read
$\log 0.662$ on first scale at outer circum-
ference.

TO MULTIPLY THREE FACTORS AT
ONE SETTING USE OF CI SCALE
for example $4 \times 8 \times 6 = 192$

Set hair line to 4 on D scale bring 8 on
CI scale (4th from outer edge of rule) to
hairline, then at 6 on C find 192 on D. Note
that these operations all cause motion to
right on D. i.e. Hairline is first set 4 units
to right of beginning on D, from 8 on CI to
1 on CI carries the 1 of C 8 units further to
right, then reading at 6 carries us 6 units
further to the answer on D.

TO DIVIDE A NUMBER BY TWO
FACTORS USE OF CI SCALE
for example $96 \div 4 \times 6 = 4$