

SCIENCE HERITAGE LTD

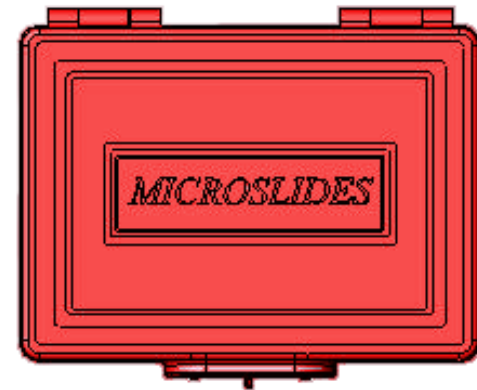
205 Years of MICROSLIDE Storage

A History of Slide/Specimen Storage

From 1808 to 2013



Ypelaar 1808

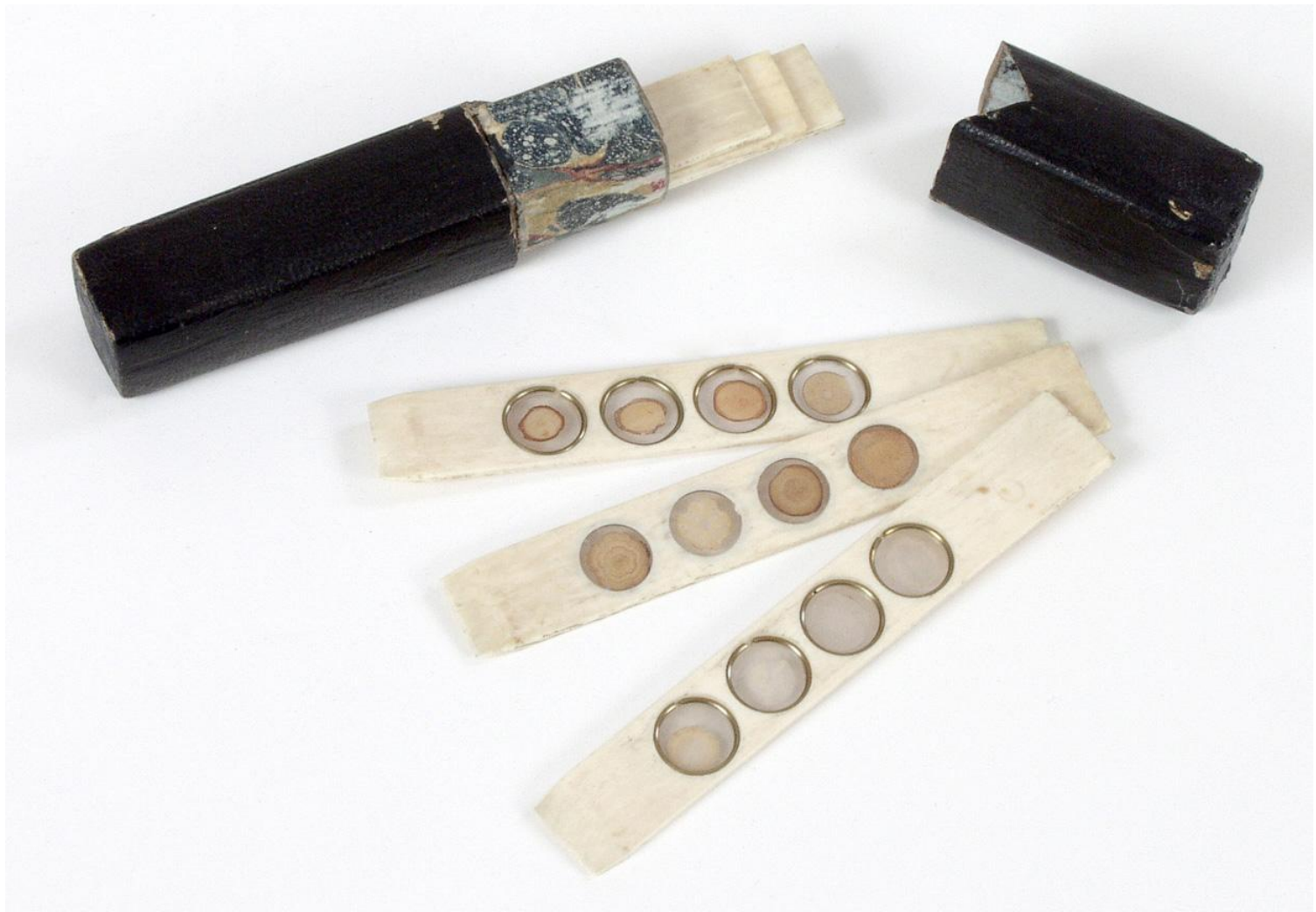




Before glass specimen slides there were
“pill boxes” for specimen storage.



Some specimens and sections were stored in folded paper envelopes.



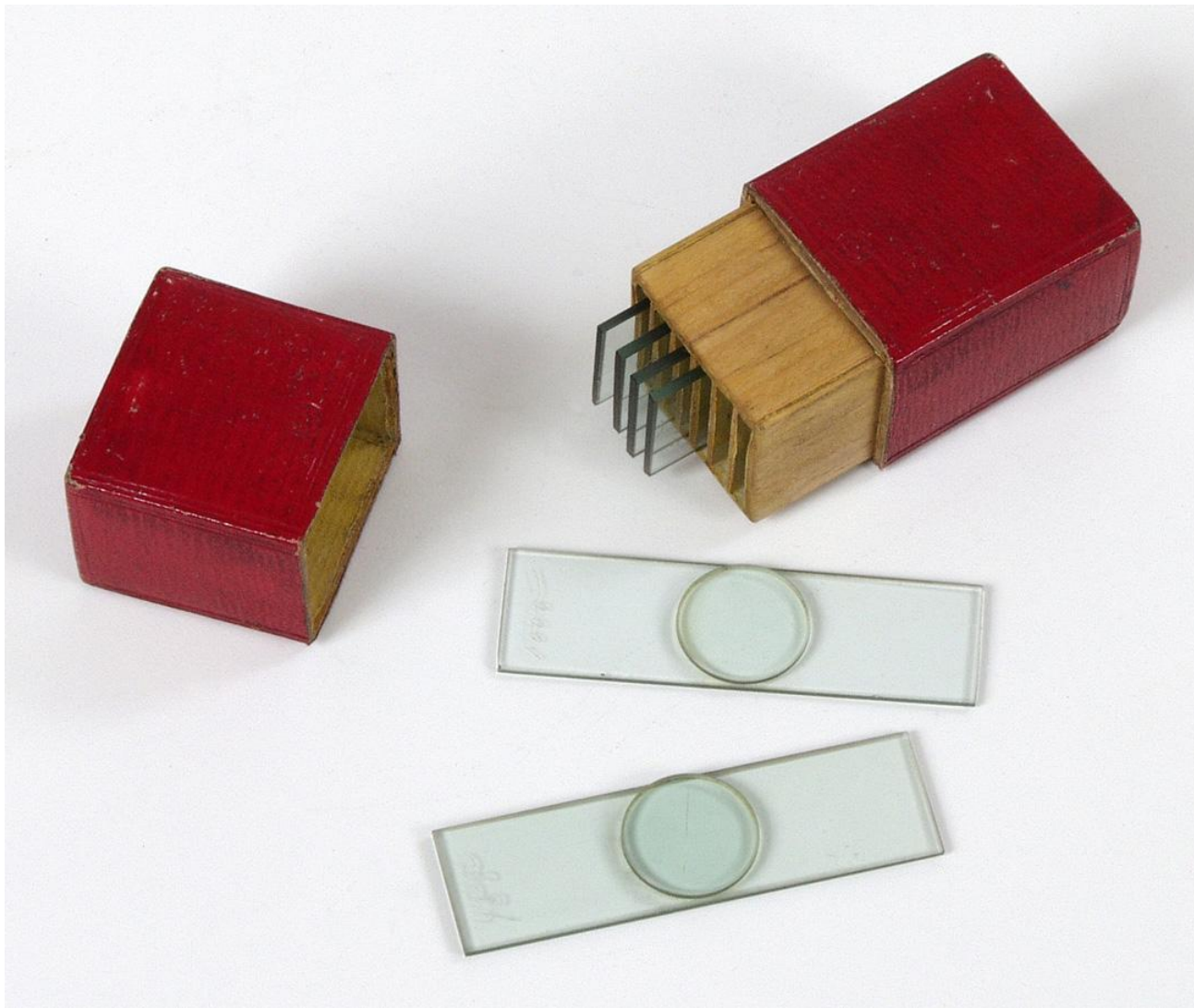
The first prepared specimen slides/sliders were bone or ivory “sliders” for dry mounts. These were boxed in skin covered card and leather slip cases.



In the late 18th Century, Ypelaar mounted specimens in ivory “cups” that were stored in purpose made fancy wooden “compacts”.



In the late 19th Century, multi-layered card carriers were designed to transport and protect fragile specimen mounts.



An early 19th Century set of diamond/glass rulings carried in a fitted wooden slip case.



In the early Victorian period, unique glass mounts for microscopic photographs were stored with a viewing glass in a plush fitted box.



Fancy “arranged” slides were fragile and protected in a velum and leather slip case.



Trade Slip Case 1895

Lab-Tek 1955

For the “PAP” test transport of slides made popular by George N. Papanicolaou, M.D. in the late 1940’s, J.B. McCormick, M.D. designed and Lab-Tek produced the first contemporary molded plastic “slip case”. What goes around, comes around”—purpose made.



The Lab-Tek Cytomailer by JBMC



Collections of standard 3 x 1 glass slides were stored in a wood and cloth “slidebox”.



Leather covered and plush lined “single” slide boxes both stored and transported precious specimen slide mounts.



Diatome collections mounted by Möller are rare and precious—stored in plush lined print labeled boxes.



A “working” laboratory specimen tray for 20 prepared slides is a “standard” design originating in the early 1900’s and continuing in a similar design today. Retaining “tapes” keep the slides in place.



Slide wallet

1890

JBMC
1990

Nothing new, under the sun.



Paper covered wood frame slide boxes of 25-50 and 100 capacity are illustrated in scientific apparatus catalogues of the early 1920's and remain a product offered today.



Utility grade, multiple slide trays boxed in groups of 10 and 12 were first shown in the late 1800's. And remain in limited use in the 21st Century.



Deluxe fitted mahogany cases of wood and card trays reflect the respect and guarding of rare and special slide collections of the Victorian period.



Victorian trays and case to contain 72 slides
respect the value of a special slide collection.



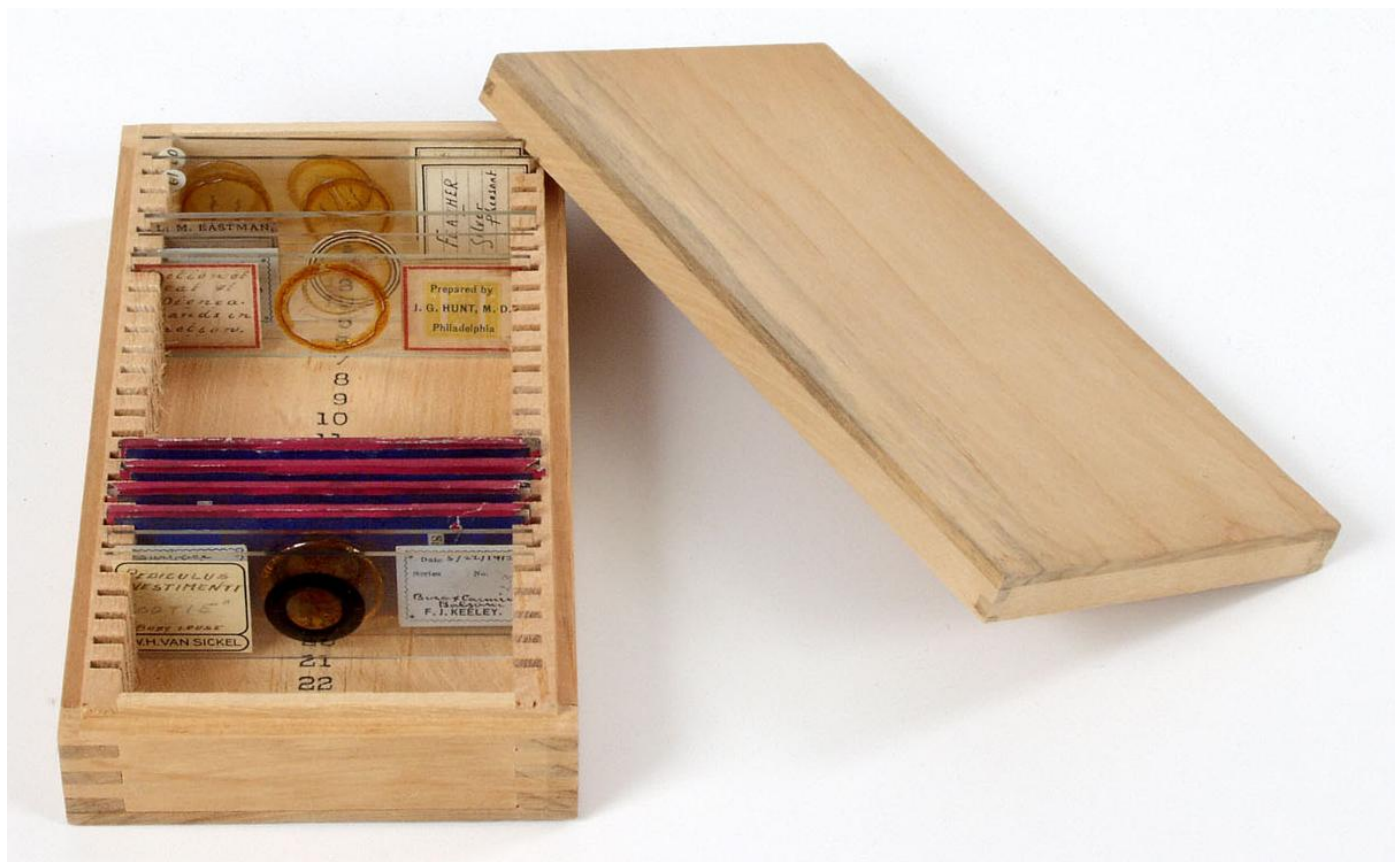
Of commercial or collection grade this box of 72 slides is typical of J.T. Norman a highly respected slide preparer of the late 1900's



A commercial slide tray cabinet for 144 specimens of 1900's vintage is occasionally found in private collections.



The vertical storage of microscopic slides beginning in the early 1900's remains the standard of slide storage in wood, wood and paper covered boxes, and now of molded plastic, most often of 100 and 25 slide capacity.



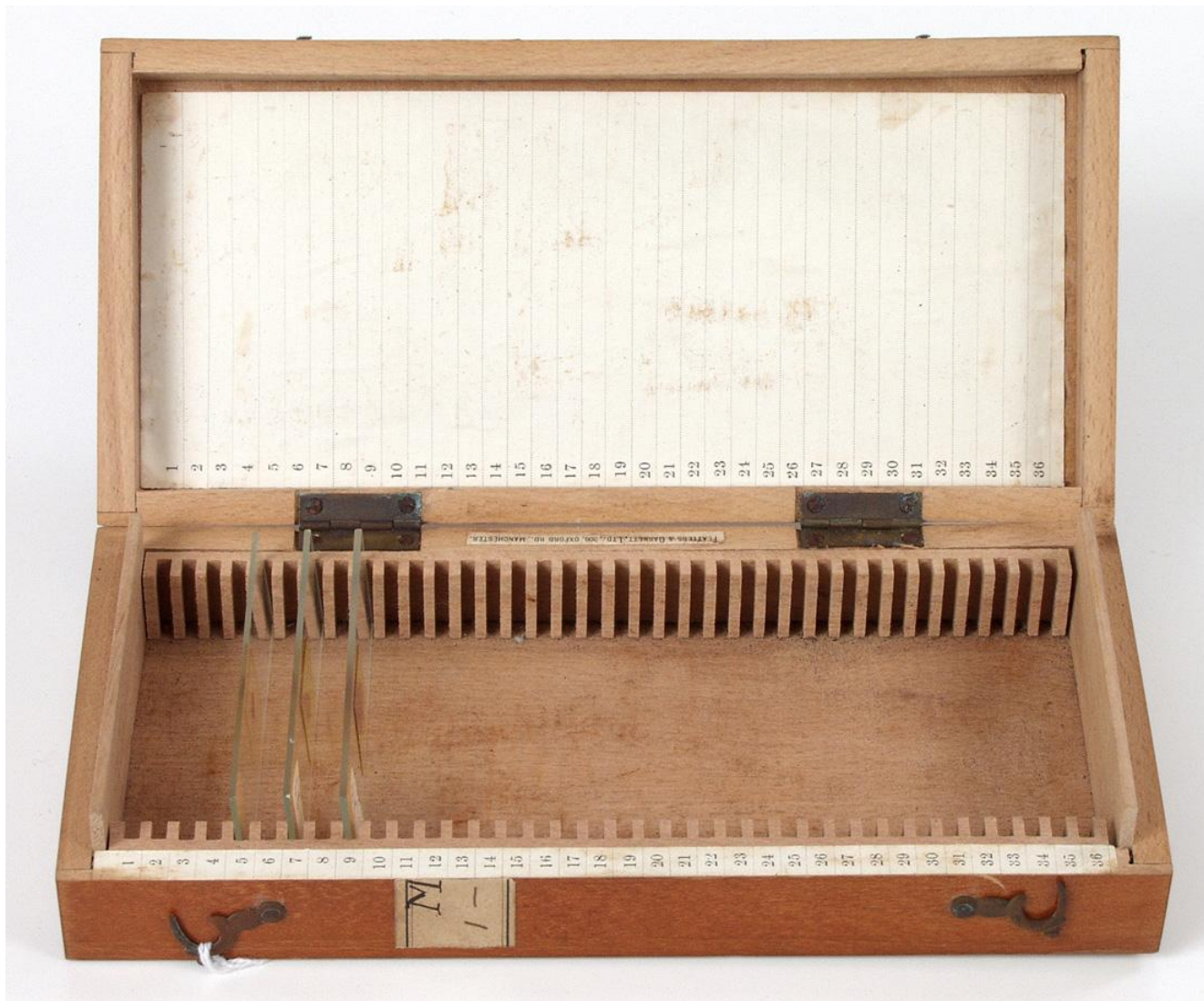
The 25 capacity soft clear wooden box was the “workhorse” of the trade until the 1940’s when manufacturing facilities switched from microscope slides to the packaging of munitions. A ten year void of production stimulated J.B. McCormick to “invent” the plastic Bakelite Slide Box.



Trade Box
25 Slide 1925



JBMC
25 Slide 1948



With hinged closure and locking hooks.
Another 25 capacity box design.



Fine mahogany with plush lining to protect precious collections.



Early versions of wood and paper covered card were purpose made for slide transport and storage.



With the formation of the Histoslides Company and having a need to store and ship prepared slides for natural science study—J.B. McCormick invented the first plastic microscope slide box. Made of Bakelite, the box was an instant success.



Produced in mahogany brown and ebony black, a cork lining cushioned the “rattle” of glass. The first order for 100,000 boxes was placed in 1948 by John McConnell of Central Scientific Company, Chicago.



The McCormick designed Histoslides 100 capacity Bakelite Slide Box introduced a new standard of quality and utility. It followed the successful introduction of the 25 capacity slide box.

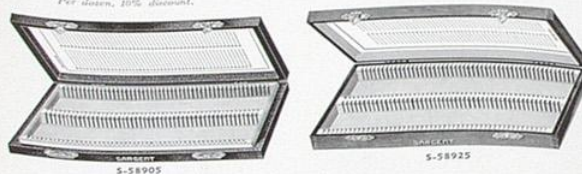
Microscope Slide Boxes



S-58875 MICROSCOPE SLIDE MAILING CASES—Reversible, Stacking. For mailing one or more slides in compact form. Made of wood in sections which are exactly identical and can be stacked in any number required, each stack taking a number of slides one less than the number of pieces used. Only the edges of the slide are in contact with the case and the reverse is of sufficient size to accommodate slides of various thicknesses with mounted preparations and cover glasses. For slides, 75x25 mm. Per dozen single sections..... .25
Per gross, 10% discount.

S-58885 MICROSCOPE SLIDE BOX—Wood, with Internal Fitting Cover. For holding 25 slides 75x25 mm, made of white wood with cover centered by an inside shoulder. A number is stamped on the inside of the bottom at each groove position, with corresponding numbers shown on a paper label attached to the outside end of the box for recording titles. Size, 170x83x39 mm..... .12
Per dozen, 10% discount.

S-58895 MICROSCOPE SLIDE BOX—Wood, with Outside Fitting Cover. Identical with No. 58885, but with flush sided cover fitting over a shoulder on the box. Size, 172x87x35 mm..... .15
Per dozen, 10% discount.



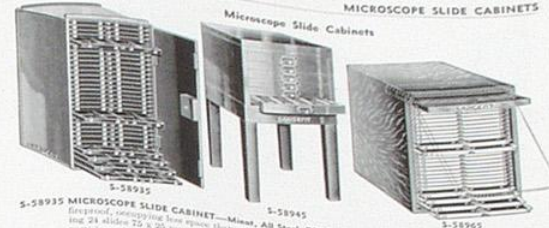
S-58905 MICROSCOPE SLIDE BOX—Hinged, Cloth Covered. For holding 100 slides 75x25 mm. The upper and lower sections of the box are made of wood covered with heavy cardboard and with an outside cover of bookbinder's cloth. It is equipped with two brass hinges and two brass latches. The wood strips permanently fastened into the body of the box with stamped numbers to correspond with a large, numbered title index inside the cover. A projecting shoulder makes the box dust-proof when closed. Size, 285x195x30 mm..... .90
Per dozen, 10% discount.

S-58915 MICROSCOPE SLIDE BOX—Hinged, Paper Covered. Identical with No. 58905, but with outside cover of heavy black embossed paper..... .75
Per dozen, 10% discount.

S-58925 MICROSCOPE SLIDE BOX—Hinged, all Wood. Similar to No. 58905, but made entirely of seasoned wood with exterior polished and stained. Size, 290x185x43 mm..... .1.00
Per dozen, 10% discount.

MICROSCOPE SLIDE CABINETS

Microscope Slide Cabinets



S-58935 MICROSCOPE SLIDE CABINET—Metal, All Steel, 720 Slides. Made entirely of steel, very compact and fireproof, occupying less space than wood cabinets of the same capacity. It contains 30 trays, each holding 24 slides 75 x 25 mm. Backs in the trays hold each slide independently and a central groove allows easy insertion of fingers for slide removal. The trays are provided with convenient handles and card with lock and key..... .35.00

S-58945 MICROSCOPE SLIDE CABINET—Steel, Sectional, 1200 Slide Section, with Base. A very strong steel case with six steel sliding trays, each fitted with wood racks with grooves for 200, 75x25 mm slides. Trays are equipped with handles and card label holders. This cabinet is stamped steel base, permitting additional sections No. 58955 to be added vertically. Trays are automatically supported in position when fully drawn out and may also be completely removed. Height of cabinet without top or base, 12 inches; depth of cabinet, 17 inches; height of base, 19 inches; total height with top, 22 inches; total capacity, 1200 slides..... .35.00

S-58955 Cabinet Section Only. (Of No. 58945, without top or base, but with six trays.) Complete including cabinet, smooth separable top, base and six trays with card holders and permanent slide racks..... .65.00

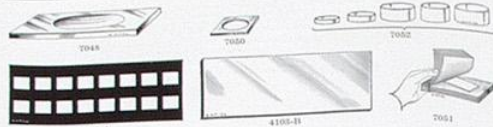
S-58965 MICROSCOPE SLIDE CABINET—Wood, Aluminum Tray, Disappearing Door, 500 Slides. Made of quartered oak with disappearing sliding door facilitating stacking. It contains 25 aluminum trays numbered consecutively, each having 20 individual compartments to accommodate 75x25 mm slides. Two slides stacked one on top of the other or side by side to form units of any capacity. Height, 220 mm; depth, 300 mm; width, 210 mm..... .27.50



S-58975 MICROSCOPE SLIDE HOLDER—Drawer Filing, Brown. For holding 75x25 mm microscope slides in standard 3x5 inch card filing cases and stacks of aluminum in the form of a 3x5 inch plate with retaining grooves for four slides, which are held only by the edges with the labels visible. The top edge is formed with semi-circular notches to permit easy removal of slides. (For file cases, see No. 58985.) Each..... .10

S-58985 MICROSCOPE SLIDE CABINET—Steel, Single Drawer, for Brown Holders. For containing approximately 100 to 120 No. 58975 Brown slide holders providing a total capacity about 450 slides. With sliding bolt feet and top depression to permit stacking. Outside dimensions, 9x10x4 1/2 inches high. Without slide holders..... .4.00

The 1930's scientific product catalogue of E.H. Sargent illustrates the variety of slide storage products that were common to the trade c. 1930.



- 7047-A. Micro Culture Slide, 75 x 40 mm, consisting of a polished plate glass slide 5 mm thick with a highly polished spherical concavity 23 mm diameter x 2 mm deep. Edges are polished and the glass is sufficiently non-reflective to withstand repeated sterilizations in a steam pressure sterilizer. As used in the Garvan Cancer Research Laboratory, The Johns Hopkins Medical School, for tissue cultures. .55
10% discount in lots of 100; 20% discount in lots of 1000. Jpdl
7048. Micro Culture Slide, 75 x 40 mm, consisting of a polished plate glass slide 5 mm thick with polished oval concavity 41 mm long x 14 mm at widest portion x 2 mm deep as used at the Rockefeller Institute for Medical Research. .55
10% discount in lots of 100; 20% discount in lots of 1000. Jpdl
7049. Micro Slide Card, for placing under the slide on which with water has been made according to the method of blood and tissue counts. Contains 25 cards, each 2 x 4 1/2 inches, with rounded corners and a white, non-reflective surface. .15
25% discount in lots of 100; 50% discount in lots of 1000. Jpdl
7050. Micro Slide, of plate glass, for use with above Slide Card, size 2 x 4 1/2 inches, with ground edges and somewhat thicker than the ordinary micro slide. .25
10% discount in lots of 100; 20% discount in lots of 1000. Jpdl
7051. Micro Slide Cell, for making culture slides, etc., by cementing the cell on an ordinary micro slide. Consisting of a square piece of ground glass with rounded corners, 22 mm square with 15 mm hole; thickness of cell 2 mm. .20 Per dozen. 2.50 Jpdl
7052. Micro Slide Drying Pad, containing 50 perforated sheets, size 4 x 2 1/2 inches. Of smooth, uniformly grained absorbent paper, especially selected for suitability in drying micro slides, particularly those of blood smears. In practice the slides are usually blotted first twice, once quickly and completely and one pad lasts a long time as the slides may be repeatedly used, but worn. The upper seven and again further down the pad. .15 Jpdl
7053. Micro Slide Rings of Glass, with edges finely ground, for cementing on ordinary slides to make cells. .15
Diameter, mm. 12 15 18 22 24
Height, mm. 3 5 10 9 10
Each .43 .42 .42 .42 .39 Jpdl Jpdl Jpdl Jpdl Jpdl
Code Word Jpdl
10% discount in lots of 100; 20% discount in lots of 1000.



7054. Micro Slide Box, of metal material, with hinged cover, for conveniently keeping clean slides to be withdrawn one by one as needed. For attaching on wall. Capacity, thirty 3 x 1 inch slides 2.25
10% discount in lots of 10; 20% discount in lots of 100. Jpdl



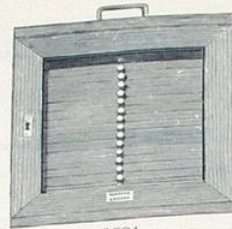
7055. Micro Slide Mailing Case, of wood, for slides 3 x 1 inches. Per dozen pieces. .16
Code Word Jpdl
10% discount in lots of 1 gross pieces; 20% discount in lots of 10 gross pieces.
7056. Micro Slide Boxes, improved form, of selected wood, with lid fitting down over the outside of projection. .16
Number 1924 1925 1926 1927 1928
Size of slides, inches 3 x 1 3 x 1 3 x 1 3 x 1 3 x 1
Capacity 12 12 12 12 12
Per 10 1.25 1.25 1.25 1.25 1.25
Code Word Jpdl Jpdl Jpdl Jpdl Jpdl
7057. Micro Slide Tray, of cardboard, map form with index on outside cover. Holds twenty 3 x 1 inch slides. .40
Code Word Jpdl
10% discount in lots of 25; 20% discount in lots of 100. Jpdl



7058. Micro Slide Holder, Brown, of aluminum, size 3 x 5 inches, to hold four 3 x 1 inch micro slides. The lower edge is turned upward to support the slides and the upper edge is cut with semi-circular notches to facilitate handling of the slides. This upper edge is also bent forward to exert slight pressure against the upper end of the slide, which holds it in place, irrespective of the position in which the holder is held. The slide label is entirely visible at the upper end of the slide.
This holder is designed for use in any ordinary card filing cabinet of standard size for 3 x 5 inch cards. Stand and index cards and cards bearing notes can be filed between the holders. When so filed, the labels are easily read without removing the slides or holders. Eight holders occupy approximately 1 inch of space, so that a standard drawer 14 inches deep takes about 120 holders, accommodating 480 slides.
See J. Howard Brown, "A New Device for Filing Microscope Slides," Science, Vol. LXV, No. 1690 (May 20, 1927), p. 501.

7059. Micro Slide Holder, Brown, as above described, size 3 x 5 inches, to hold four 3 x 1 inch slides. Each .10
Code Word Jpdl
10% discount in lots of 125 (accommodating 500 slides).
150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 1,000
20% discount in lots of 1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000 9,000 10,000

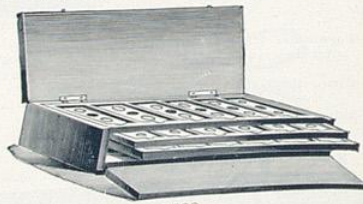
In a similar way the Arthur Thomas Catalogue offers all of the "classic" storage and transport products.



1524

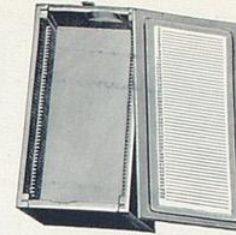
Cabinets for keeping unfinished slides during work, and for storing and preserving mounted and finished slides—

- 1524 Cabinet of polished pine, with glass door, lock and key, to hold 200 objects; neatly made 25/-
- 1525 Ditto, to hold 500 objects 45/-



1528

- 1526 Ditto, best polished pine, to hold 1 doz., for the pocket 1/6
- 1527 Ditto, with four trays, to hold 2 doz. 2/3
- 1528 Ditto, with six trays, to hold 3 doz. 2/6
- 1529 Ditto, with 12 trays, to hold 6 doz. 3/6



1530

- 1530 Cabinet for Slides, new pattern, made entirely of wood, and measuring only 9" x 3 1/4" x 1 1/2", holding 60 slides 3" x 1"

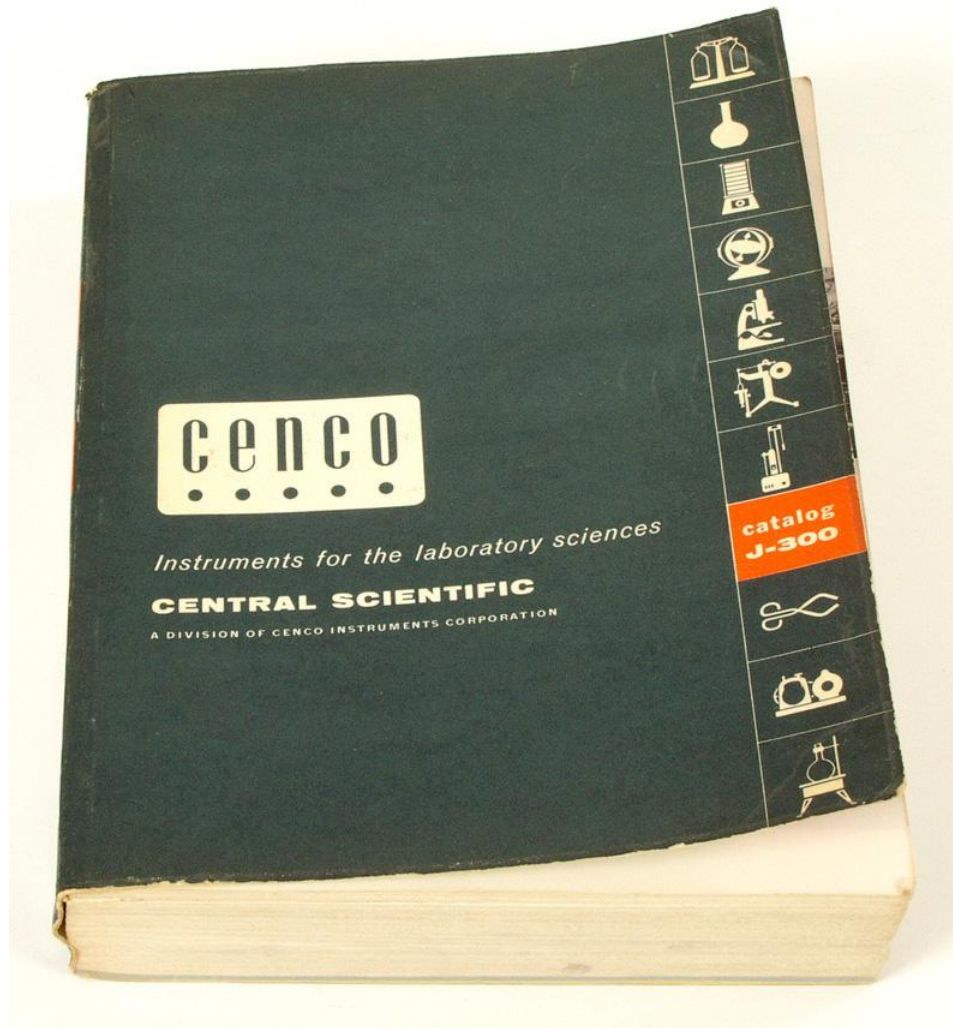
The cover, with index on the inner side, can easily be taken on or off, and forms a perfect protection against dust each 1/6



1531

- 1531 Cabinets of cardboard, cloth covered, with white cardboard trays, to hold 9 doz. slides 3" x 1" each 2/6
- 1532 Ditto, to hold 4 1/2 doz. " 1/6
- 1533 Ditto, for the pocket, to hold 1 doz. " 1/6
- 1534 Ditto, plain white wood, with wood racks, to hold 3 doz. slides each 9d
- 1535 Ditto, ditto, ditto, to hold 6 doz. slides 1/2

England, Europe, USA, worldwide need for microscopic slide storage and transport of the early 1900's.



The 1950's—Central Scientific—our first customer that purchased 100,000 Bakelite Slide Boxes was the hinge of change.

CENCO MICROSCOPE SLIDES

66300 MICROSCOPE SLIDES, CENCO GREEN BOX
For precise microscopic work. Edges beveled and smooth without sharp corners. Non-corrosive and colorless. 25 x 75 mm; thickness, 0.97 to 1.07 mm. Individually selected, cleaned and dried. Packed in heat-sealed cellophane, 72 to box.
Box \$1.55

66310 MICROSCOPE SLIDES, CENCO BROWN BOX
For routine microscopic and students' use. Same as No. 66300 but 1 x 3 in. and 1.3 to 1.5 mm thick. Box of 72.
Box \$1.50

66320 GRAPHIC MICROSCOPE SLIDES
Frosted end for pencil mark identification. Edges ground. Selected grade glass, 25 x 75 mm; thickness 1 mm to 1.25 mm. Box of 72.
Box \$1.90

66340 LARGE MICROSCOPE SLIDES
Same grade as No. 66300, 50 x 75 mm; average thickness 1.2 mm. Box of 72.
Box \$3.25

CULTURE MICROSCOPE SLIDES, CENCO
For holding liquids and cultures for microscopic examination. Polished plate glass, 2 x 1 in.

	Depression	Diam.	Depth	Thickness	Unit Price
66350	Single	16.5 mm	0.8 mm	1.5 mm	\$0.12
66360	Double	do	do	do	0.21
66370	Double	do	1.75 mm	2.25 mm	0.33
66372	Double	do	do	4.5 mm	0.48

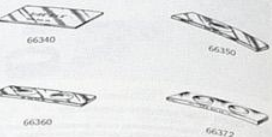
66374 SHOEMAKER MICRO-CULTURE SLIDE
For microscopic examination and microprojection of molds, fungi, etc., and small taxonomy. For inoculation directly in liquid. Glass slide 3 x 1 in. x 5 mm thick with impolished channel 1/2 in. wide, less than 1 mm deep and 3/4 in. from one end. Reference: R.N. Shoemaker, "Science", Vol. 112 No. 2898 p. 52 July 14, 1950.
Each \$0.58

66380 HANGING DROP SLIDE
For microscopic examination of liquids. Heavy plate glass with straight-sided, polished depression in center. Slide, 3 x 1 in. x 6 mm. Depression, 16 mm x 2 mm.
Each \$1.15

66390 MICROSCOPE SLIDE DISPENSER
Holds and singly dispenses 50 slides of 1 mm thickness by pressing down lever. Two thumb screw adjustment for dispensing slides of various thickness. Stainless steel, rubber-cushioned base. Length, 5 in.; width, 3 in.; height, 2-3/4 in. Net weight, 10 oz. Without slides.
Each \$10.50

66300 BIBULOUS DRYING PAPER

For drying microscopic slides and other purposes requiring pure, smooth highly absorbent paper. 50 sheets, 4 x 6 in. in box.
Per Box \$0.45



MICROSCOPE SLIDE BOXES

Catalog No.	Slide Capacity	Type	Dimensions, inches Length Width Height	Type Cover	Price Each
66400	25	White wood numbered grooves, index	6-5/8 3-1/2 1-1/2	Inside fitting	\$0.60
66410	25	do	6-15/16 3-9/16 2-3/8	Outside fitting	1.10
66435	100	Paper covered wood. Top and bottom, heavy cardboard lined with white enamel. 2 rows numbered wood grooves, index	11-1/4 7-5/8 1-1/8	Brass hinges and clamp	2.45
66445	100	Polished stained wood. 2 rows numbered wood grooves, index	9-1/4 7-3/8 1-3/4	2 brass hinges 2 clasps	2.15

66415, 66417 PLASTIC MICROSCOPE SLIDE BOXES, CENCO
Improvement over conventional wooden boxes. Compression molded, non-warping, bakelite, selected for strength, durability, rigidity and smoothness. Removable cork bottom slides and protects slides from breakage. Printed index in lid.

Catalog No.	Slide Capacity	Dimensions, inches Length Width Height	Type of Cover	Each
66415	25	6-3/16 3-9/16 1-1/2	Outside Fitted	\$0.60
66417	100	8-2/4 6-1/2 1-1/2	Metal Hinged with clasp	2.70

66460 MINOR MICROSCOPE SLIDE CABINET

Capacity, 840 slides. 25 trays, fitted with separate compartments. Horizontally holds 24 slides, 3 x 1 in. or 12 slides, 3 x 2 in. Depression running length of tray for receiving individual slides. Each tray has identification card holder and knob. Case of metal with hinged door, lock and handle. Net weight, 33 lb., shipping weight, 46 lb. Each \$70.00

66480 MICROSCOPE SLIDE CASE, TRAY FORM

For storing and transporting 3 x 1 in. slides. Cardboard with 20 numbered receptacles in two rows. Double folding covers have embossed padding so that they contact only one side. Numbered index inside of covers. Length, 13-1/2 in. Width, 8 in.
Each \$1.35

66490 MICROSCOPE SLIDE LABELS

White paper with blue line border, 22 mm square. Box of 100.
Per Box \$0.18

66495 MICROSCOPE SLIDE MAILING CASE

Wood with tongue and grooves on each side for holding wood with tongue and grooves on each side for holding individual 3 x 1 in. slides. Pkg. of 10 cases. Per Pkg \$0.55

66700 MICROSCOPE SLIDE MOUNTING CELLS

For making cells to mount objects on microscope slides. Heavy glass rings with ground edges.

No.	Inside diam., mm	Height, mm	For slide (in.)	Each
1	15	2	3 x 1	0.35
2	18	3	3 x 1	0.42
3	24	5	3 x 1	0.43
4	10	10	3 x 1	0.55



And now the J.B. McCormick designed Bakelite Plastic Slide Box was the standard of the industry.

ANATOMICAL & BIOLOGICAL MODELS



52797
52797 ELEMENTARY TORSO MODEL (PG 2890)
Showing 144 coded structures required for teaching the respiratory, circulatory, digestive and genitourinary systems. Lungs, heart (dissectable), stomach, intestines, and liver are removable. Size 1 1/2 x 2 1/2 in. Made of tough vinyl plastic. Each \$165.00



52799
52799 STANDARD TORSO MODEL (PG 2895)
Sixteen, in life-size, fully colored, and dissectible into nine parts. All parts are readily removable, numbered in contrasting colors and all parts are plainly marked to show 487 coded structures. Complete identification is provided in the Teachers' Manual supplied. Comes with four separate plaques detailing vertebral, head, and male and female genital organs. 34 in. all made of tough vinyl plastic. Each \$234.50



52799

52800 STANDARD TORSO MODEL

Same as 52799 but molded of fibrous, a durable composition containing synthetic resin, lungs, stomach and women setting. Paralleled for classroom demonstrations. Each \$179.50



52803
52803 BRAIN IN CRANIAL CAVITY (PG 2725)
Natural sized removable from cranium to show all spinal nerves. Dissection of the spinal dura and petrous bone. Made of tough vinyl plastic, 7 x 9 x 8 in. Each \$57.50

52804
52804 BRAIN IN CRANIAL CAVITY
Same as 52803 but accurately molded and hollow cast from Fibrous. Each \$59.50

52905
52905 BRAIN ONLY (PG 2720)
Vinyl brain from No. 52803 model 5 1/2 x 7 x 1 1/2 inches. Each \$27.50

MADE OF UNBREAKABLE VINYL PLASTIC



52808

52807 HEAD PLAQUE (PG 2785)

Mid-sagittal section molded to base to stand erect. Shows over 40 coded structures. Made of tough vinyl plastic, 8 1/2 x 13 inches. Each \$24.00

52908 HEAD PLAQUE

Same as No. 52807 but molded and cast from Fibrous. Each \$16.50



52815

52815 RESPIRATORY ORGANS (PG 2795)

Natural size includes dissectible heart and larynx and respiratory lung. Detailed dissection of pulmonary vascular system and air supply along with diaphragm in contact with lungs. Esophagus and vena cava are penetrating the diaphragm. Made of tough vinyl plastic, 11 x 16 x 2 inches. Each \$65.00



52816



52819

52819 ENLARGED HEART (PG 2790)

Model three times normal size with anterior wall removable showing chambers and valves. Molded with base from tough vinyl plastic, 8 x 18 x 12 inches. Each \$75.00

52820 ENLARGED HEART

Same as No. 52819 but made of durable Fibrous. Each \$28.50



52827

52827 INTESTINAL VILLUS (PG 2900)

Greatly enlarged to show arterial and venous blood supply. Made of tough vinyl plastic, 8 x 13 x 8 in. Each \$45.00



52824

52824 HEART, LIFE SIZE

Natural size, dissectible into 2 parts, an excellent non-vascular model, particularly useful for small groups. Shows the coronary circulation and cardiac plexus. With this model a very complete study can be made of the chambers of the heart, valves and root of the aorta. Size 3 x 5 x 3-3/4 inches. Each \$13.50

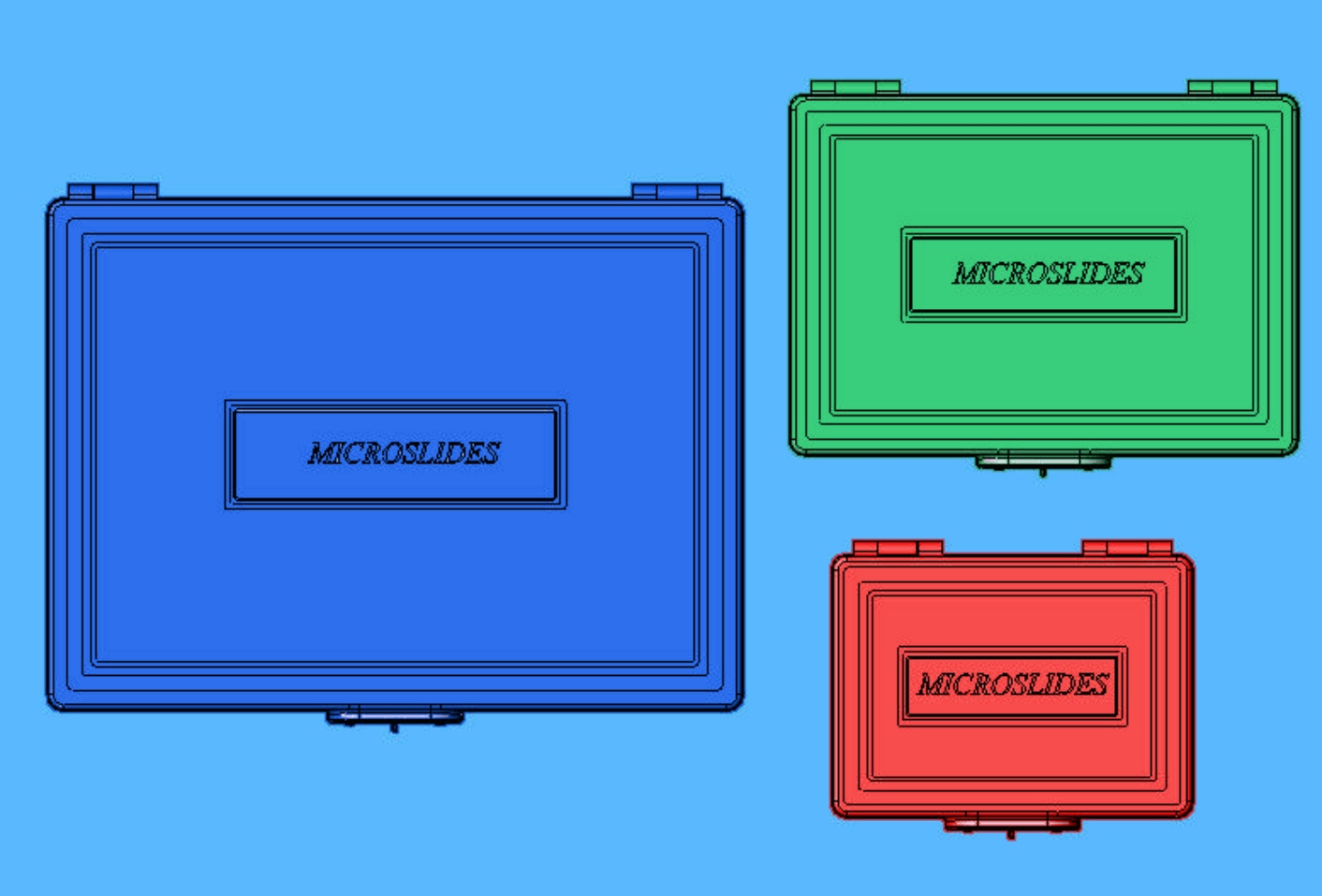


52828

52828 DIGESTIVE SYSTEM, NATURAL SIZE

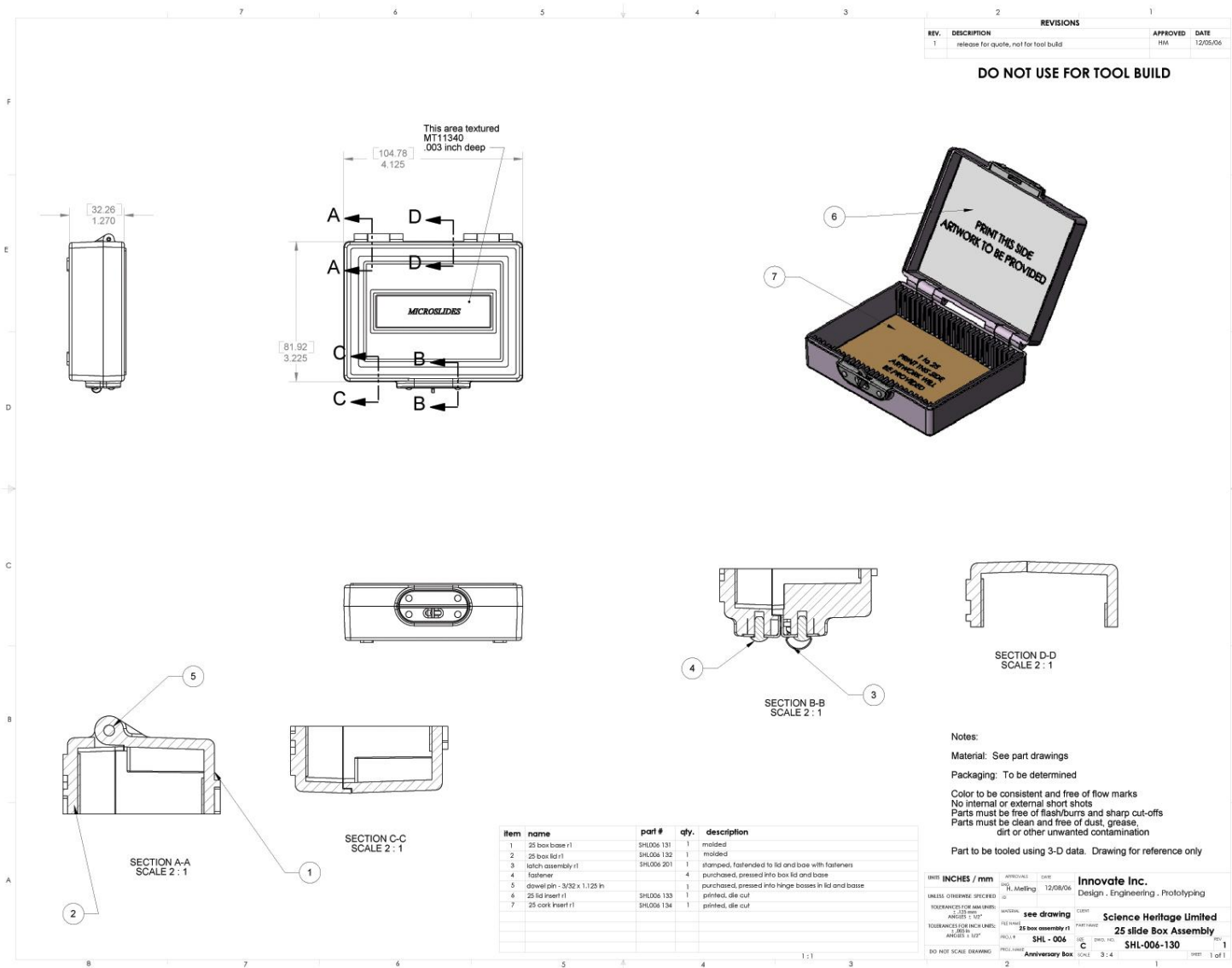
Life size, includes a section thru the nose, mouth and throat cartilage and showing all parts of the alimentary tract. The esophagus is opened to show the valves between the large and small intestines. A section of the duodenum shows the opening of the pancreatic and bile ducts. Made of Fibrous, tough durable and lightweight. Size 12 x 20-1/2 x 6 inches. Each \$25.00

Illustrated in the late 1950's catalogue of "CENCO" were all of the Histoslides Company products—slide boxes and teaching models made for biology and anatomical science—these were the first unbreakable vinyl plastic teaching models. The "muscle man" was issued a U.S. patent number 2,763,070 to J.B. McCormick, M.D.

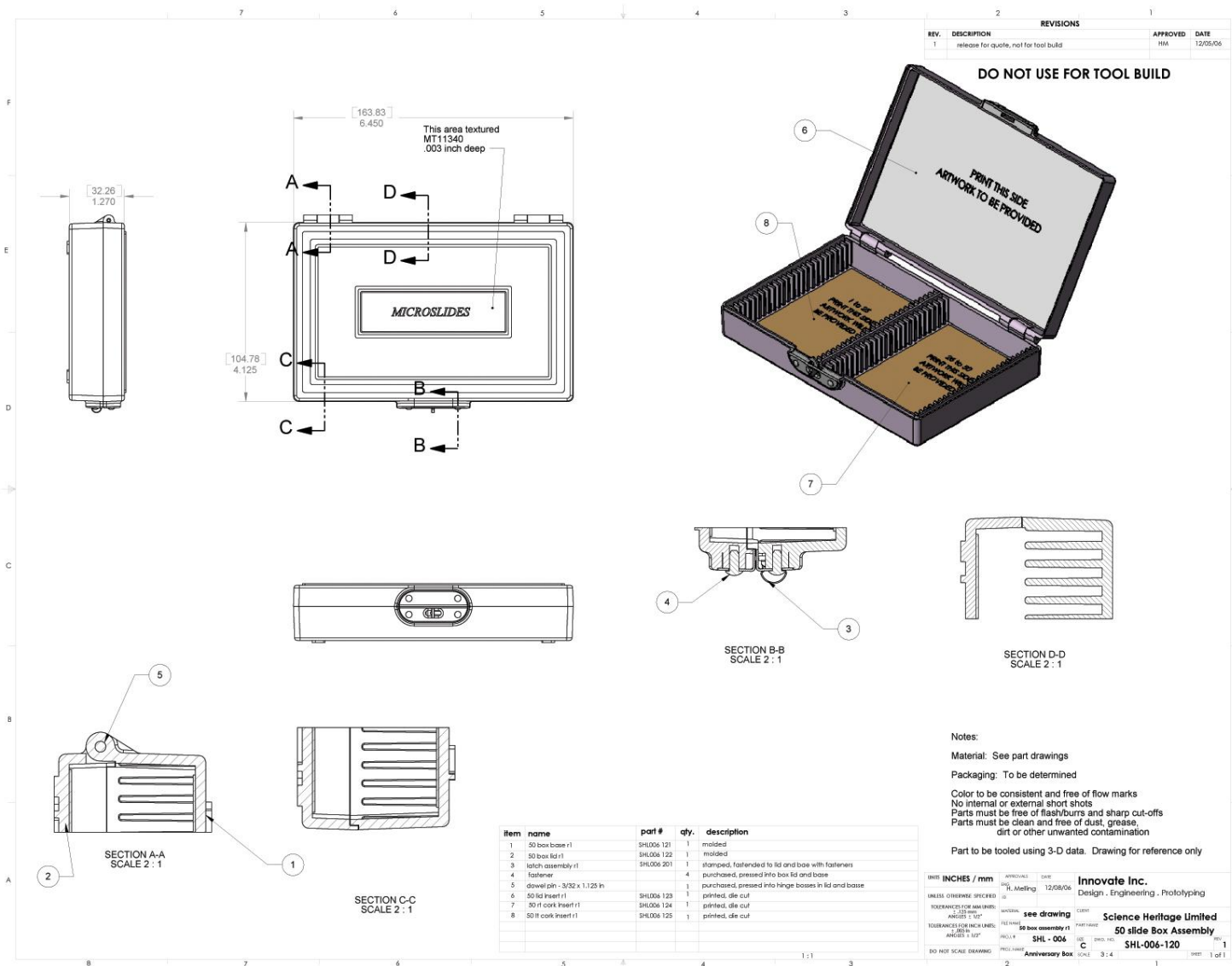


After setting the standard of design for 3x1" microscope slide storage and transport since 1948, the McCormick Scientific, LLC, C.S.O. (Chief Scientific Officer) has designed the new precision molded family of slide boxes. Sizes for 100, 50 and 25 slides have hinged covers and precision stainless steel slide locks.

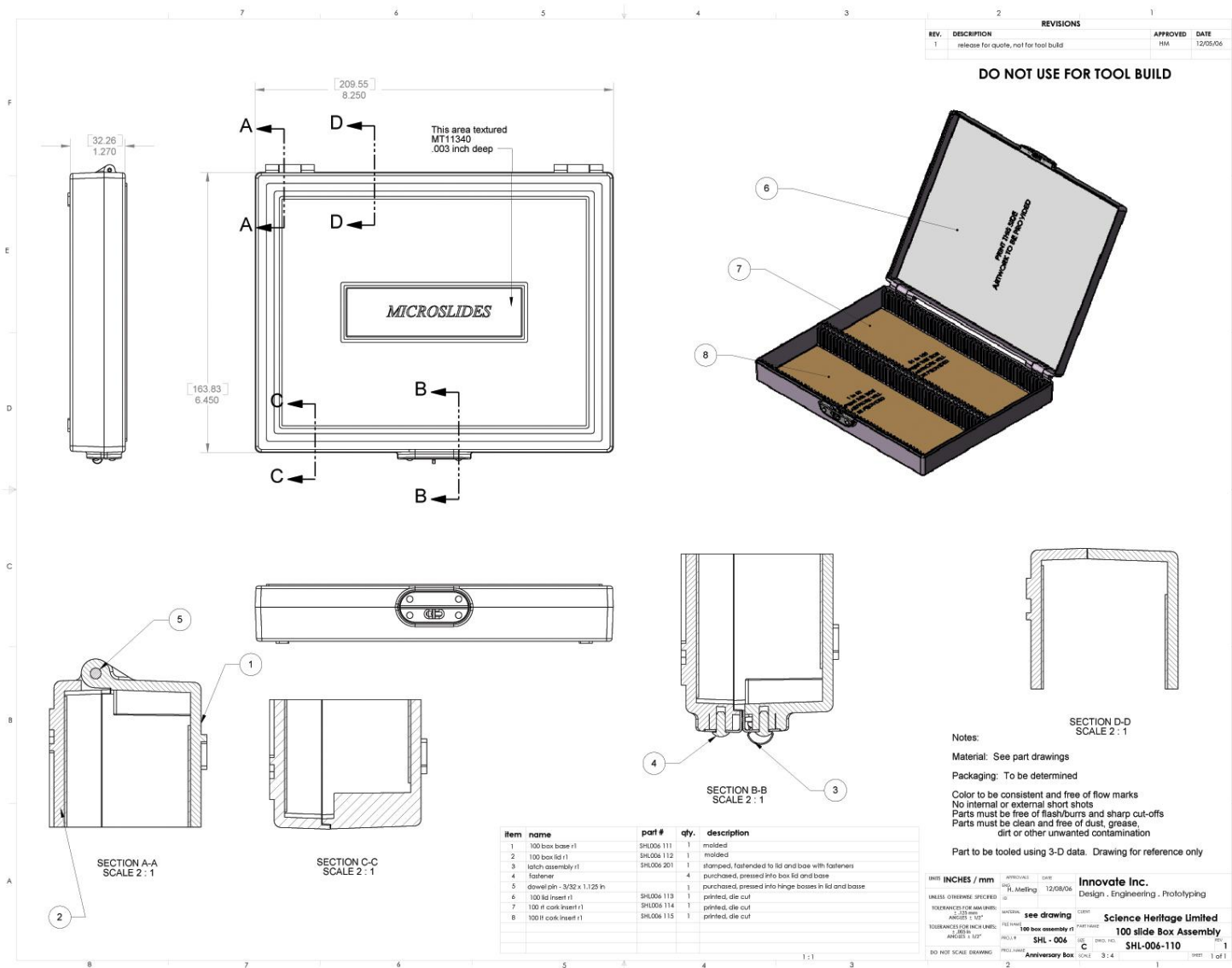
Available in multiple colors.



25 capacity slide box



50 capacity slide box



100 capacity slide box
“Best in its class” 1948 - 2013



1948



2013