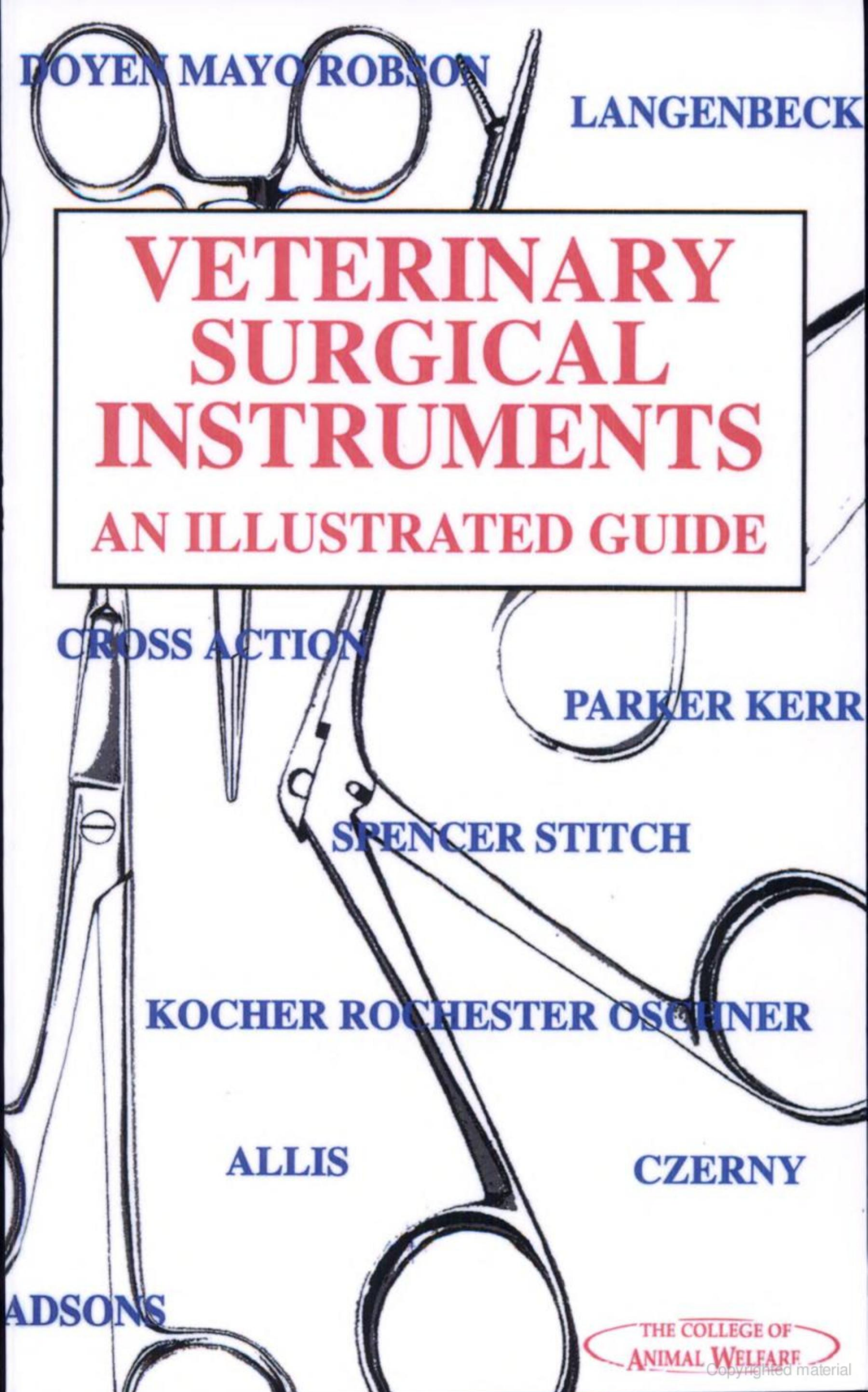
VETERINARY SURGICAL INSTRUMENTS

AN ILLUSTRATED GUIDE



Veterinary Surgical Instruments: An Illustrated Guide

THE COLLEGE OF ANIMAL WELFARE

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Veterinary Surgical Instruments: An Illustrated Guide

The College of Animal Welfare

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Contents

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Introduction

The aim of this book is to aid nurses and students to identify commonly used, widely available instruments. It has not been written to contain an exhaustive list of instruments (at present there are 378 designs of extraction forceps available in dentistry alone). It is very important to note that veterinary surgeons will always have personal preferences and uses for instruments.

Having studied this book it would be pleasing to think that the next time a veterinary surgeon says:

"Pass those things that have the funny shaped tips, you know, those double jointed things I always use. No, not those, the things next to them. Yeah! That's them!"

You can confidently reply:

"Do you mean the Stille Luer Rongeurs?"

General Instruments

Artery Forceps

Scissors

Dissecting Forceps

Tissue Forceps

Visceral Clamps

Towel Clamps

Scalpel Handles and Blades

Retractors - Handheld

Retractors - Self Retaining

Needle Holders

Diathermy Equipment

Artery Forceps

Common Features

Ratchet to maintain a closed position

Serrated blades

Clamp tightly shut

Ring grip for fingers

Screw or box joint

Use

Occlusion of blood vessels

Kocher Rochester Oschner

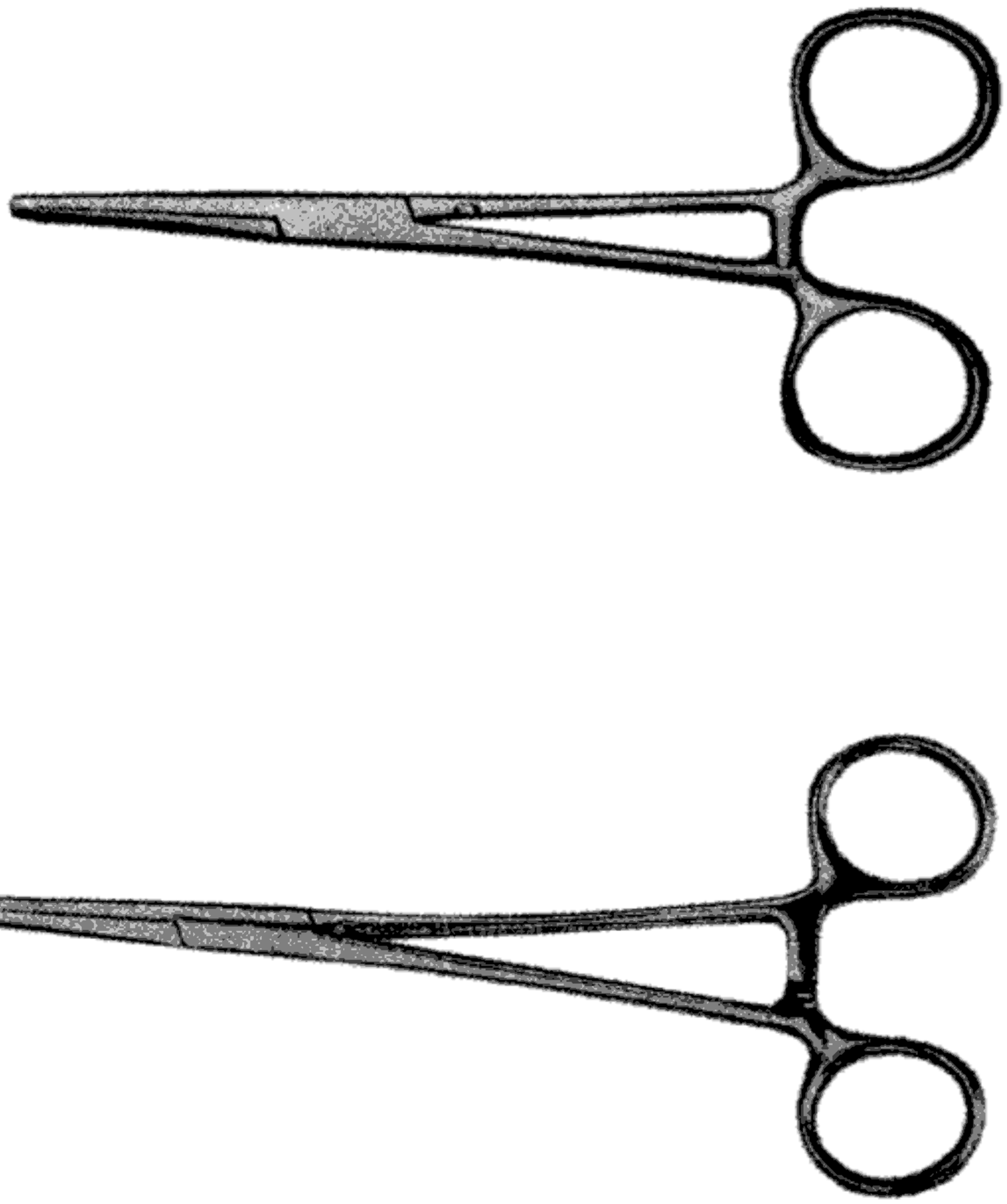
Name	Kocher Rochester Oschner (straight and curved)
Purpose	Clamping blood vessels
Size	13 - 20 cm
Distinguishing Features	Teeth at tips
Similar Instruments	Mayo Oschner

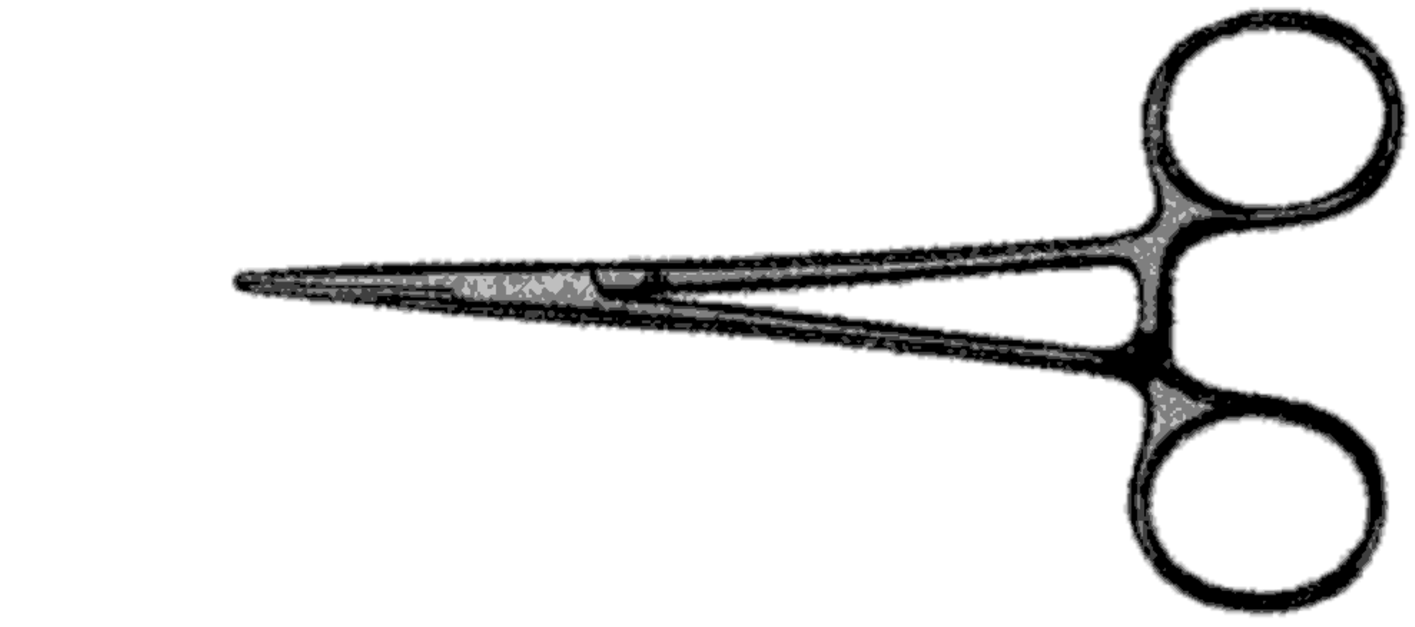
Spencer Wells

Name	Spencer Wells (straight and curved)
Purpose	Clamping blood vessels
Size	13 - 20 cm
Distinguishing Features	None
Similar Instruments	Mayo, Moynihan, Rochester

Halstead Mosquito

Name	Halstead Mosquito (straight and curved)
Purpose	Clamping small blood vessels
Size	12.5 cm
Distinguishing Features	Small, fine tipped artery forceps
Similar Instruments	Kelly





Scissors

Common Features

Two blades

Uses

Sharp and blunt soft tissue dissection (not skin)

Suture cutting

Mayo

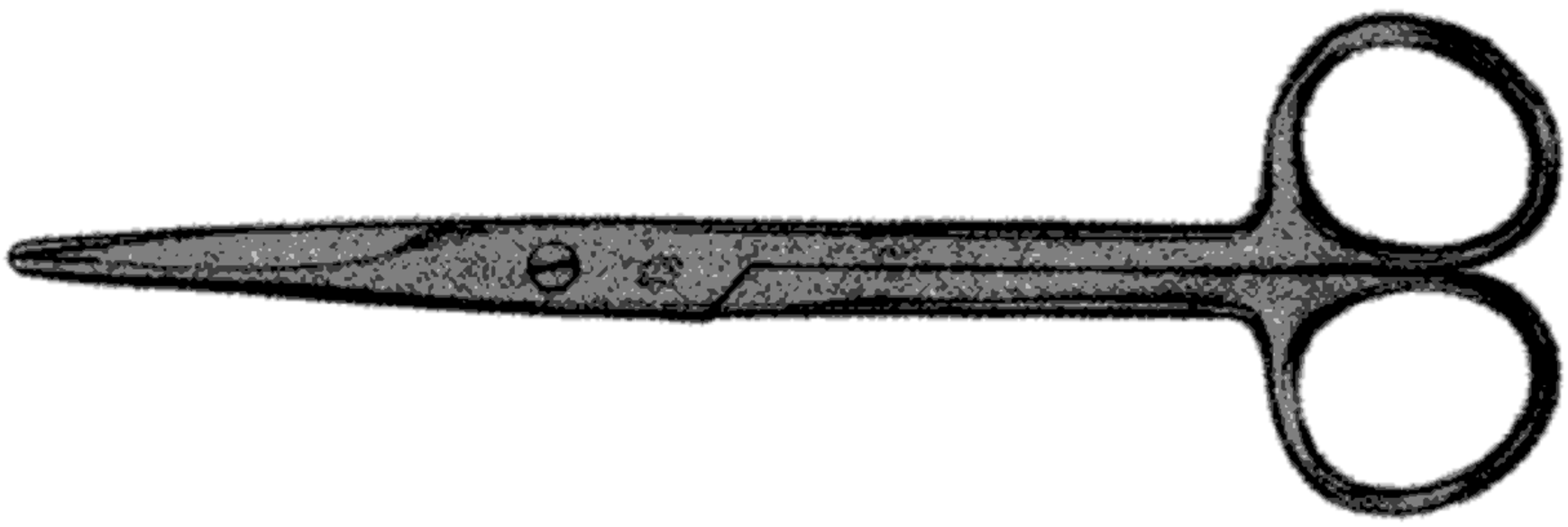
Name	Mayo (straight and curved)
Purpose	Soft tissue dissection and cutting
Size	14 - 21.5 cm
Distinguishing Features	Smooth tips
Similar Instruments	Mayo-Stille, Aufrichts

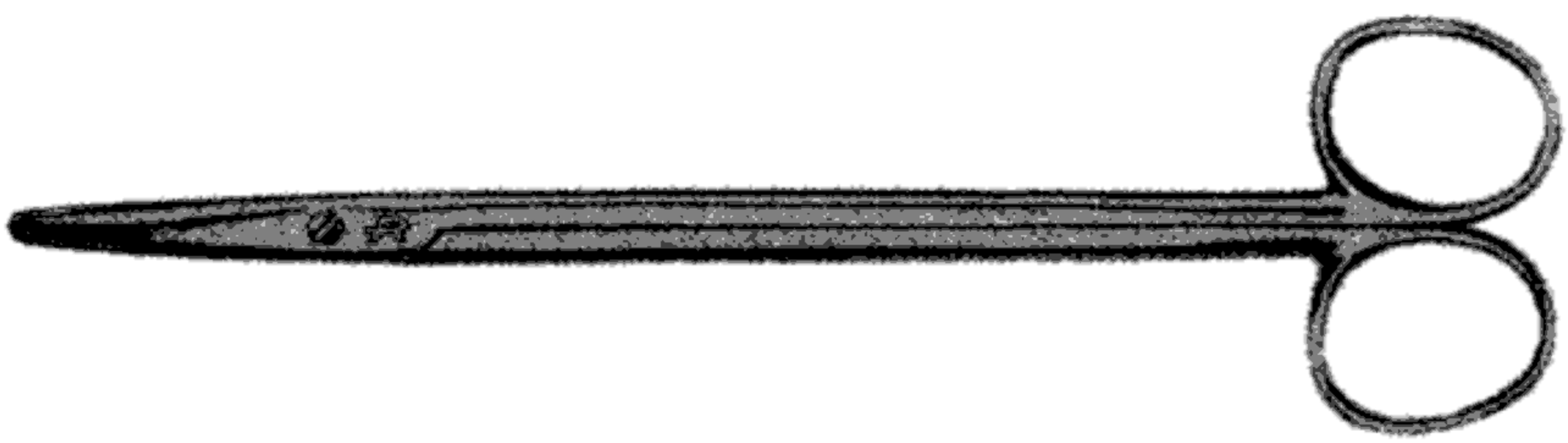
Metzenbaum

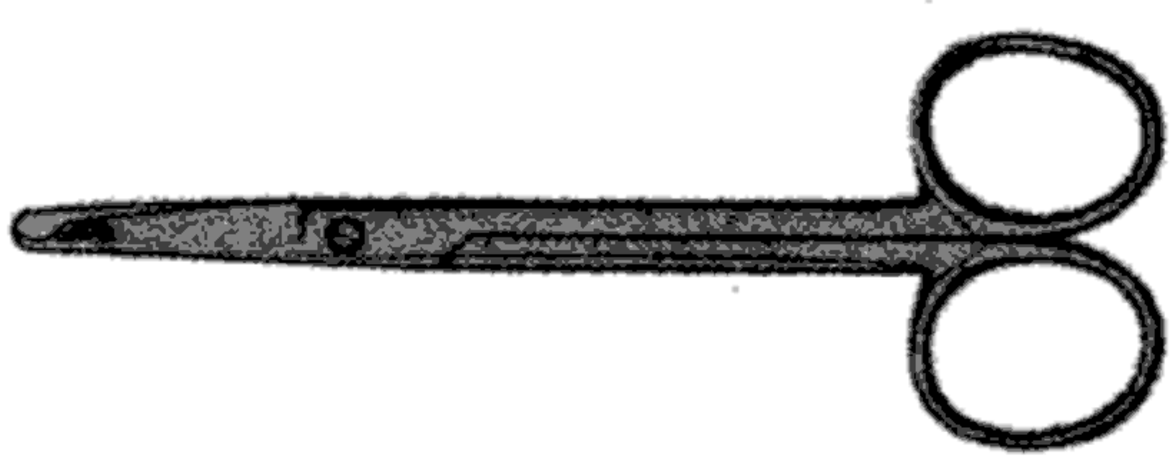
Name	Metzenbaum
Purpose	Soft tissue dissection (fine)
Size	14 - 21.5 cm
Distinguishing Features	Long handle, short blade
Similar Instruments	Nelson, McIndoe

Spencer Stitch

Name	Spencer Stitch
Purpose	Suture removal
Size	9 - 13 cm
Distinguishing Features	Shape of tip specifically for suture removal
Similar Instruments	None







Carless

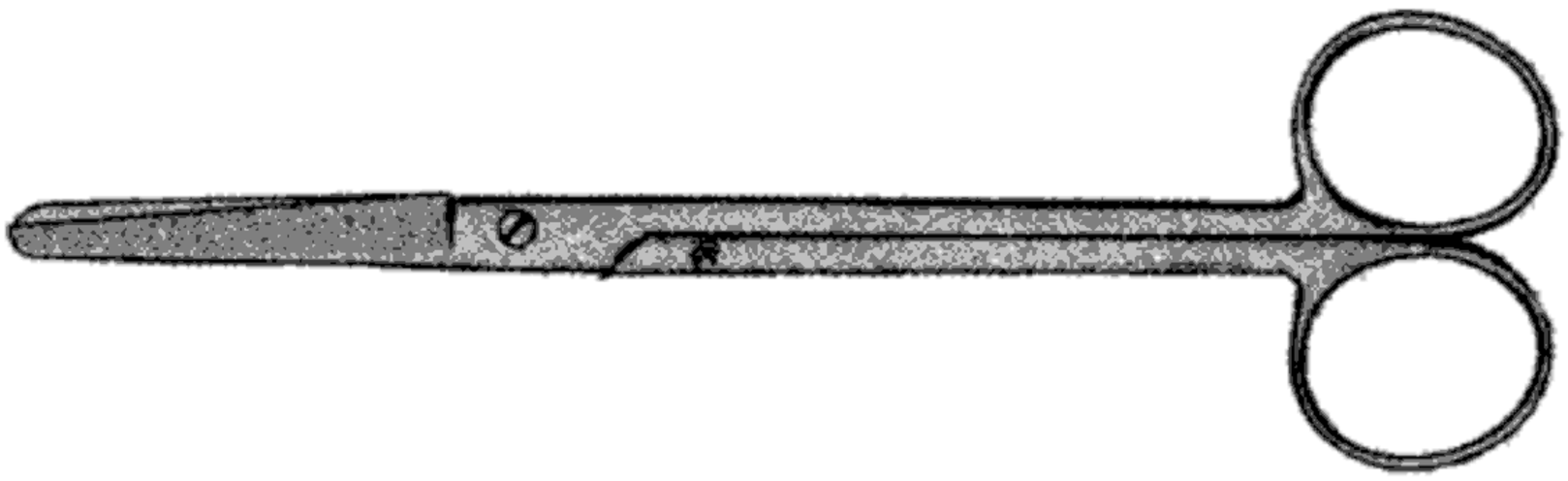
Name	Carless
Purpose	Suture cutting
Size	17 - 20 cm
Distinguishing Features	Square, blunt tips
Similar Instruments	Standard blunt/blunt

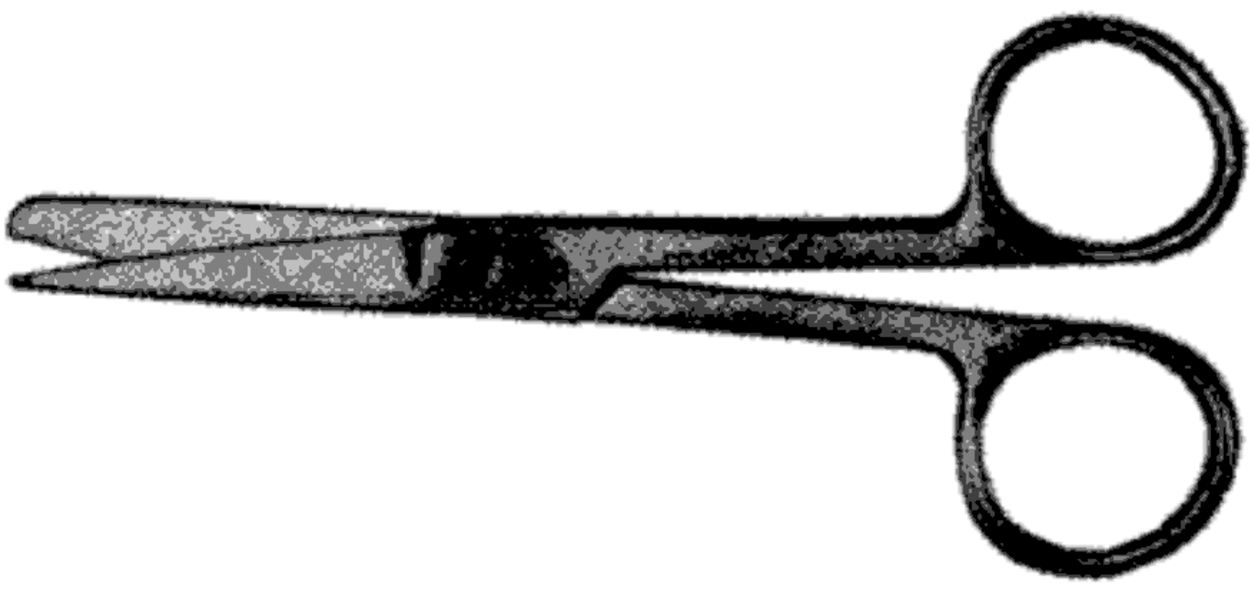
Standard

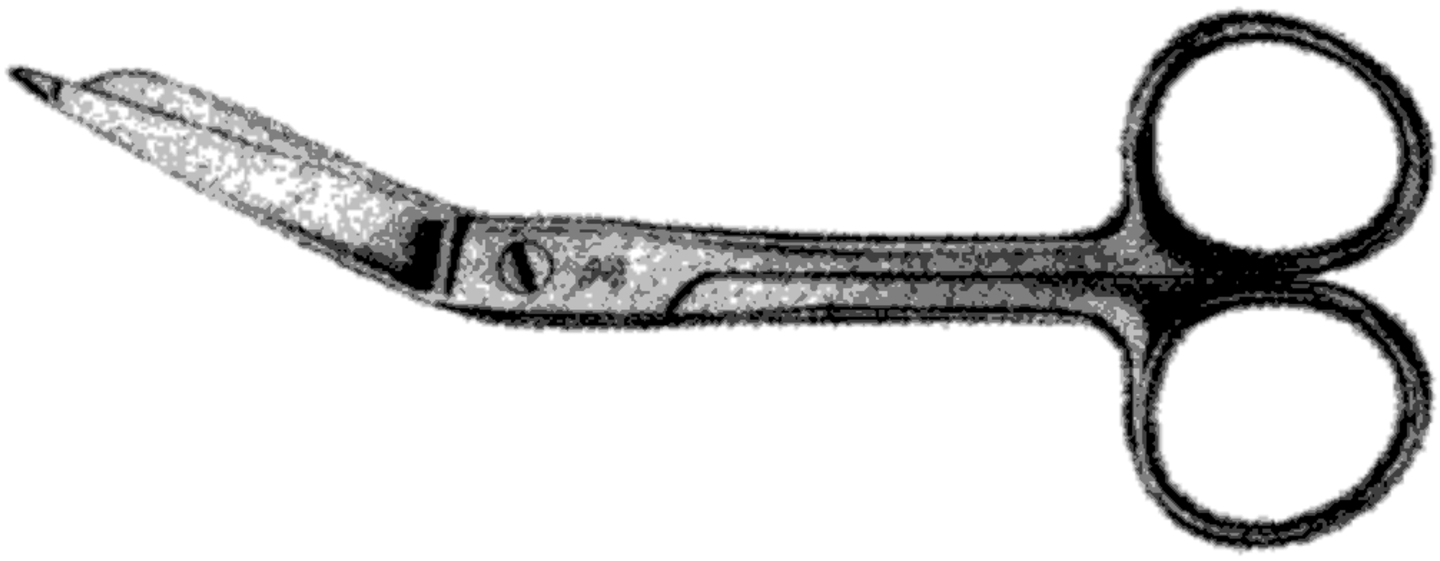
Name	Standard (straight and curved, sharp or blunt.
Purpose	Cutting fur or sutures
Size	10 - 20 cm
Distinguishing Features	Different shaped blades
Similar Instruments	Nurses scissors

Lister

Name	Lister
Purpose	Bandage cutting/removal
Size	14 - 20 cm
Distinguishing Features	Angled beyond joint with a flattened tip
Similar Instruments	Stadler







Dissecting Forceps

Common Features

Handle with serration for grip

Tips may be rat toothed or serrated

Use

Intermittent, temporary grasping of:

tissue

skin

soft tissue

viscera

Standard, Plain and Toothed

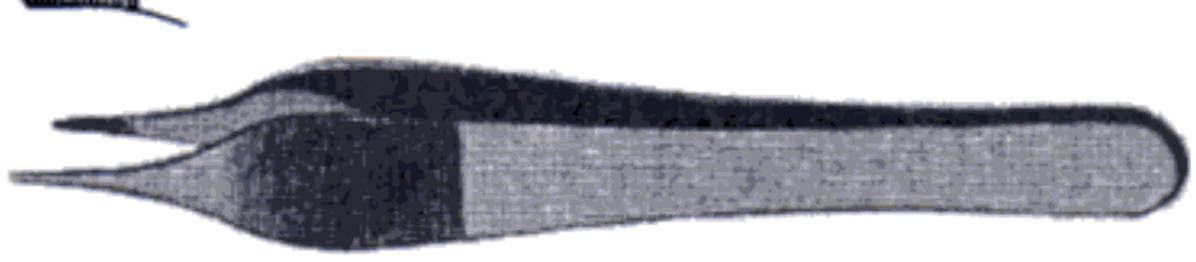
Name	Continental Standard
Purpose	Handling soft tissue
Size	11.5 - 30 cm
Distinguishing Features	Rounded serrated tips
Similar Instruments	Bonney (plain) Lane

Continental Standard (End Toothed)

Name	Continental Standard (End Toothed)
Purpose	Handling skin
Size	11.5 - 30 cm
Distinguishing Features	Narrow, rat toothed tips
Similar Instruments	Semkin, Gillies

Adsons

Name	Adsons (plain end)
Purpose	Fine handling of soft tissue
Size	13 - 18 cm
Distinguishing Features	Widened area proximal to the tips
Similar Instruments	Gillies, McIndoe

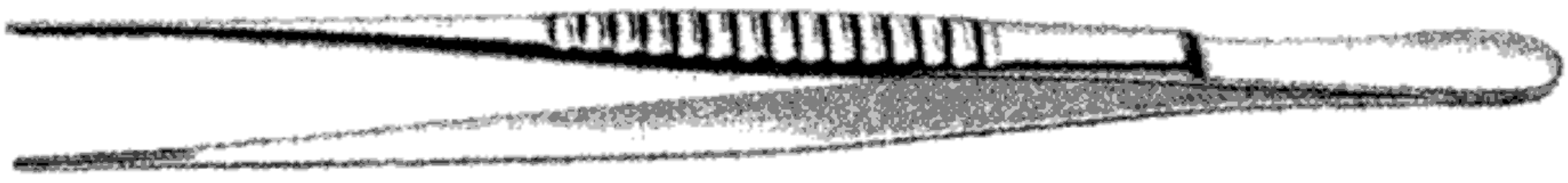


Emmett

Name	Emmett
Purpose	Handling deep, soft tissue (e.g., uterus)
Size	20 cm
Distinguishing Features	Long, thin tips with a broad proximal portion
Similar Instrument	None

Debakey

Name	Debakey
Purpose	Atraumatic handling of viscera Useful for abdominal and thoracic surgery
Size	15 cm, 18 cm, 19.5 cm
Distinguishing Features	Longitudinal grooves along both tips
Similar Instruments	Cooley Forceps



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Tissue Forceps

Common Features

Ring grip for fingers

Ratchet maintains a closed position

Tip has a fine area of contact

Uses

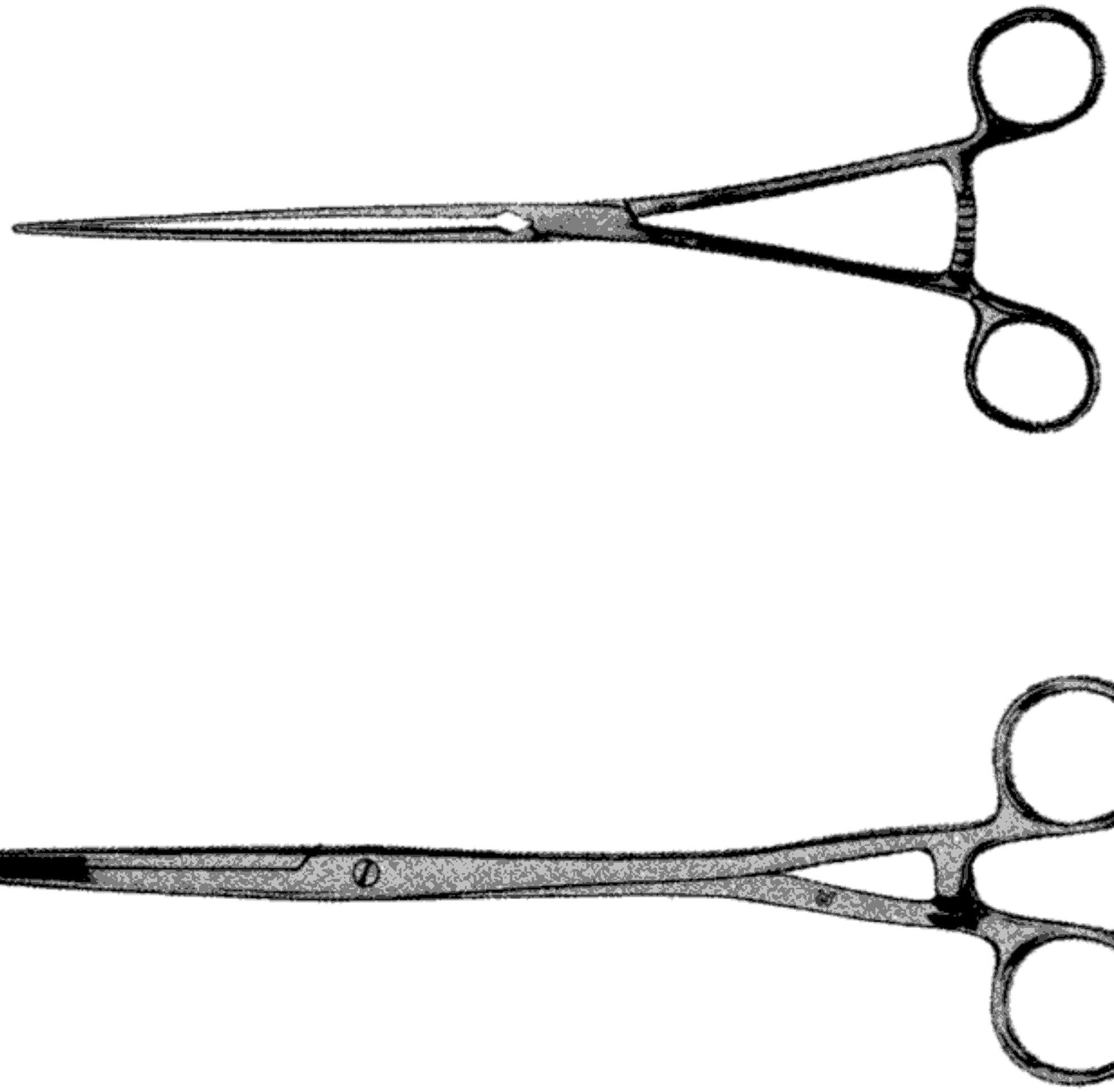
Prolonged grasping of soft tissue or viscera

Doyen Mayo-Robson

Name	Doyen Mayo-Robson
Purpose	Visceral occlusion (intestine and stomach)
Size	24 cm
Distinguishing Features	Gap between grasping surfaces
Similar Instruments	Lane

Parker-Kerr

Name	Parker-Kerr
Purpose	Occlusion of viscera, e.g., cervix
Size	25 cm
Distinguishing Features	Heavy forceps with curved tips and screw joint No gap between the grasping surfaces
Similar Instruments	Geary Grant Cholecystectomy Forceps



Towel Clamps

Common Features

Sharp curved tips which cross over

Use

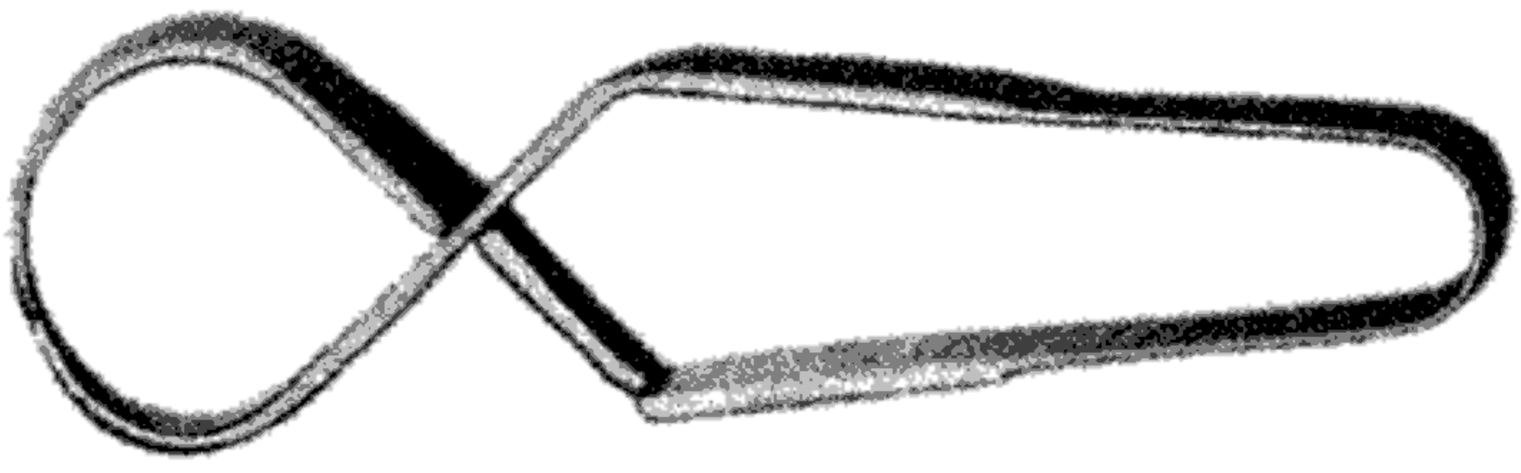
Anchoring drapes to the patient

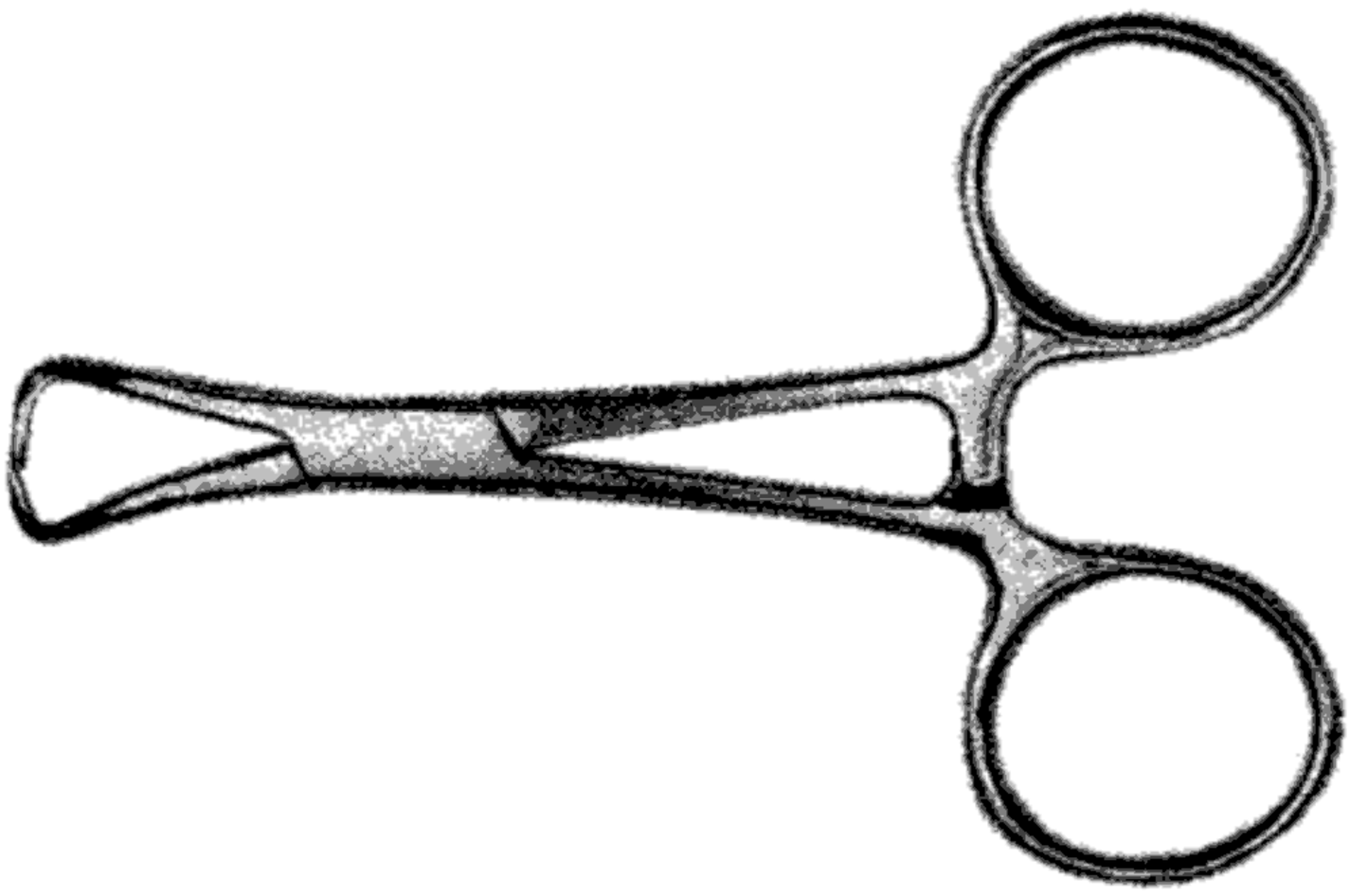
Cross Action

Name	Cross Action
Purpose	Anchoring drapes to the surgical field
Size	9.5 - 13.5 cm
Distinguishing Features	Spring type cross action
Similar Instruments	Jones, Schaedel

Backhaus

Name	Backhaus
Purpose	Anchoring drapes to the surgical field
Size	9.5 cm
Distinguishing Features	Box joint and ratchet
Similar Instruments	Duff (has teeth at tip and screw joint)





Scalpel Handles and Blades

Common Features

Diagonal ledge near tip

Central raised area on tip

Use

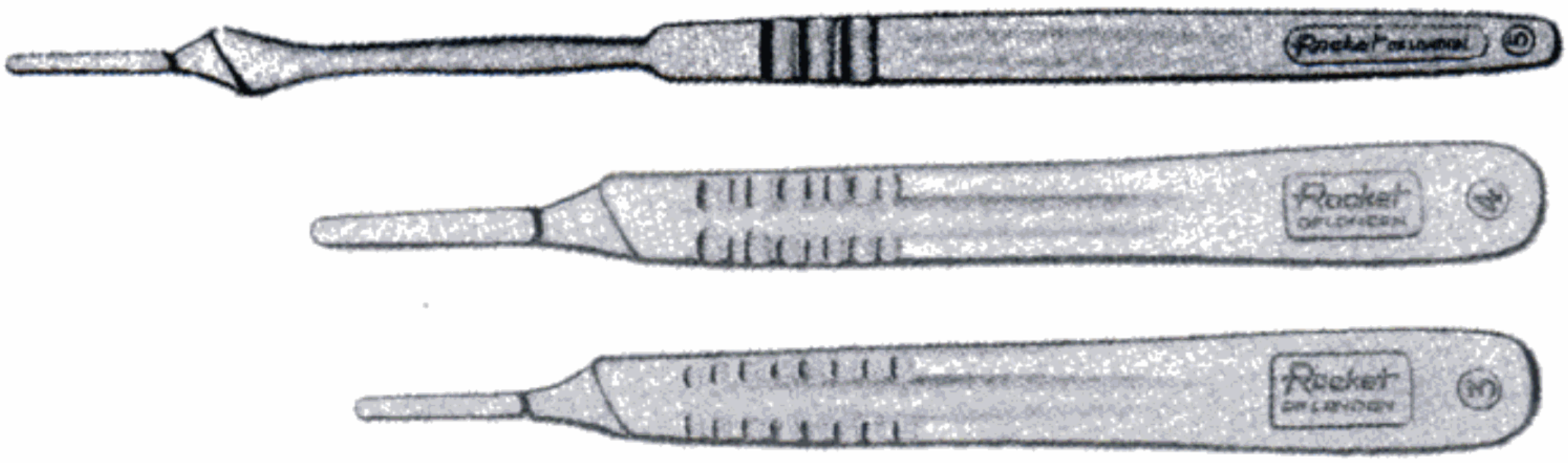
Holding scalpels

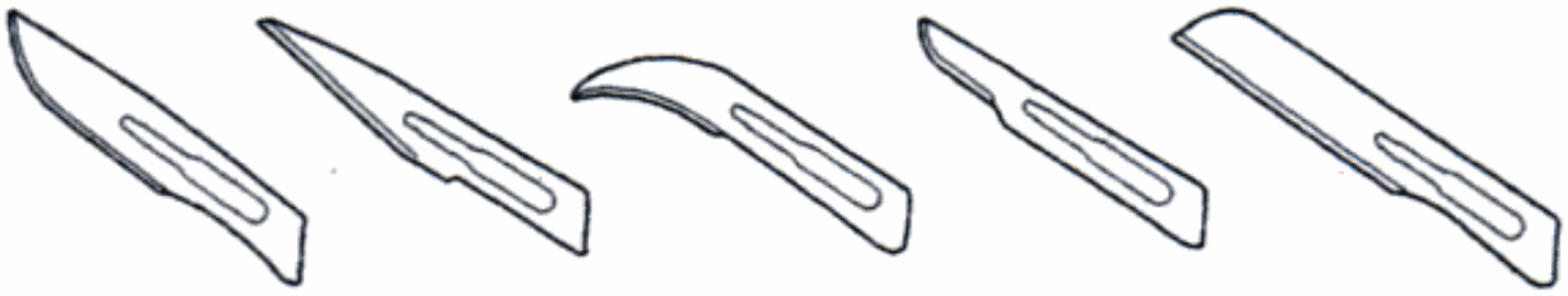
Scalpel Handles

Name	Scalpel Handles, Size No 3, 4 and 5
Purpose	For attachment of scalpel blades
Size	No 3, 4 and 5
Distinguishing Features	The No 5 handle is longer and narrow None of them could be mistaken for anything else
Similar Instruments	None

Scalpel Blades

Name	Scalpel Blades, Size Nos 10, 11, 12, 15 and 20
Purpose	Tissue incision and transection
Size	Nos 10, 11, 12, 15 and 20
Distinguishing Features	See illustrations
Similar Instruments	None





Retractors - Handheld

Common Features

Grooved handle

Hook-like end - may be flattened

Uses

Retraction of soft tissue, viscera and bone

Langenbeck

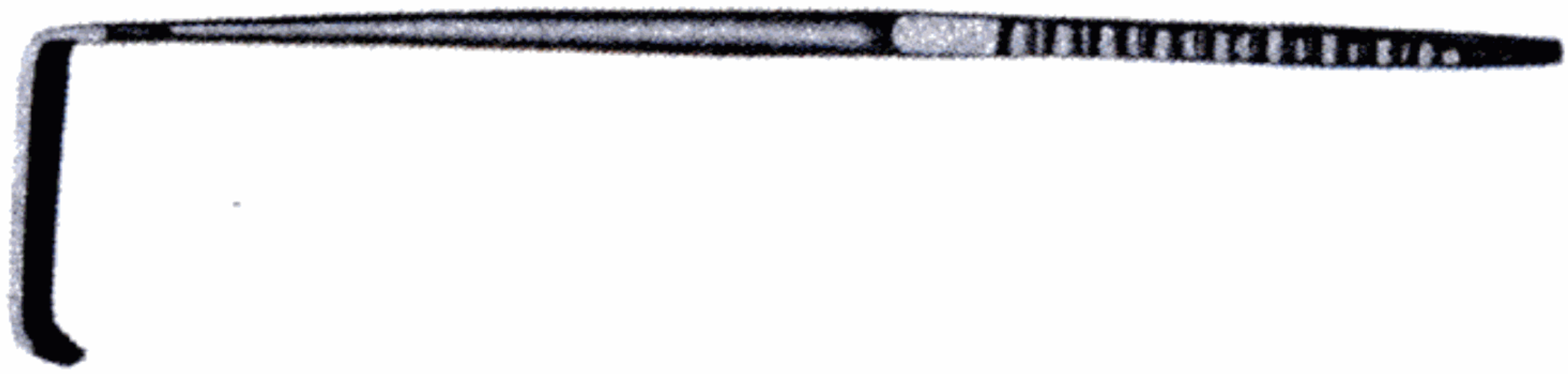
Name	Langenbeck
Purpose	Soft tissue retraction to expose other structures
Size	23 x 7 mm, 44 x 13 mm, 64 x 26 mm
Distinguishing Features	Flat blade "L" shaped retractor Grooved handle
Similar Instruments	Morris

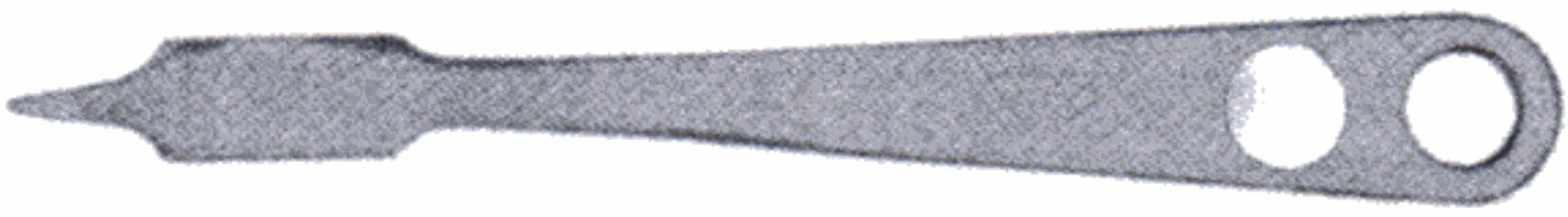
Hohmann

Name	Hohmann
Purpose	Retraction within a joint
Size	12 mm and 18 mm wide
Distinguishing Features	Small beak at the tip of the retractor
Similar Instruments	None

Volkmann

Name	Volkmann
Purpose	Retraction of tendon and muscle to expose other structures
Size	21.5 cm
Distinguishing Features	Tip looks like a rake
Similar Instruments	Senn





Czerny

Name	Czerny
Purpose	Soft tissue retraction
Size	18 cm
Distinguishing Features	Flat blade at one end and a double prong at the other
Similar Instruments	Mathieu

Retractors - Self Retaining

Common Features

Ratchet which maintains open position

Uses

Prolonged retraction of soft tissue, viscera and bone

Gelpi

Name	Gelpi (sharp or blunt)
Purpose	Muscle and joint retraction
Size	18 cm
Distinguishing Features	Single pronged outwardly turning tips
Similar Instruments	None

Travers

Name	Travers
Purpose	Muscle and joint retraction
Size	20 cm
Distinguishing Features	Four teeth on each side with blunt tips
Similar Instruments	West Weislander (smaller than Travers being 14 cm) Weislander (four teeth on one side and three teeth on the other - smaller than Travers being 14 cm)

Cone

Name	Cone
Purpose	Retraction of muscle during orthopaedic procedures
Size	25 cm
Distinguishing Features	Joints half way along the arms to allow a flexible field of retraction
Similar Instruments	Travers, West, Weislander (none of these have the joint along each arm)

Gosset

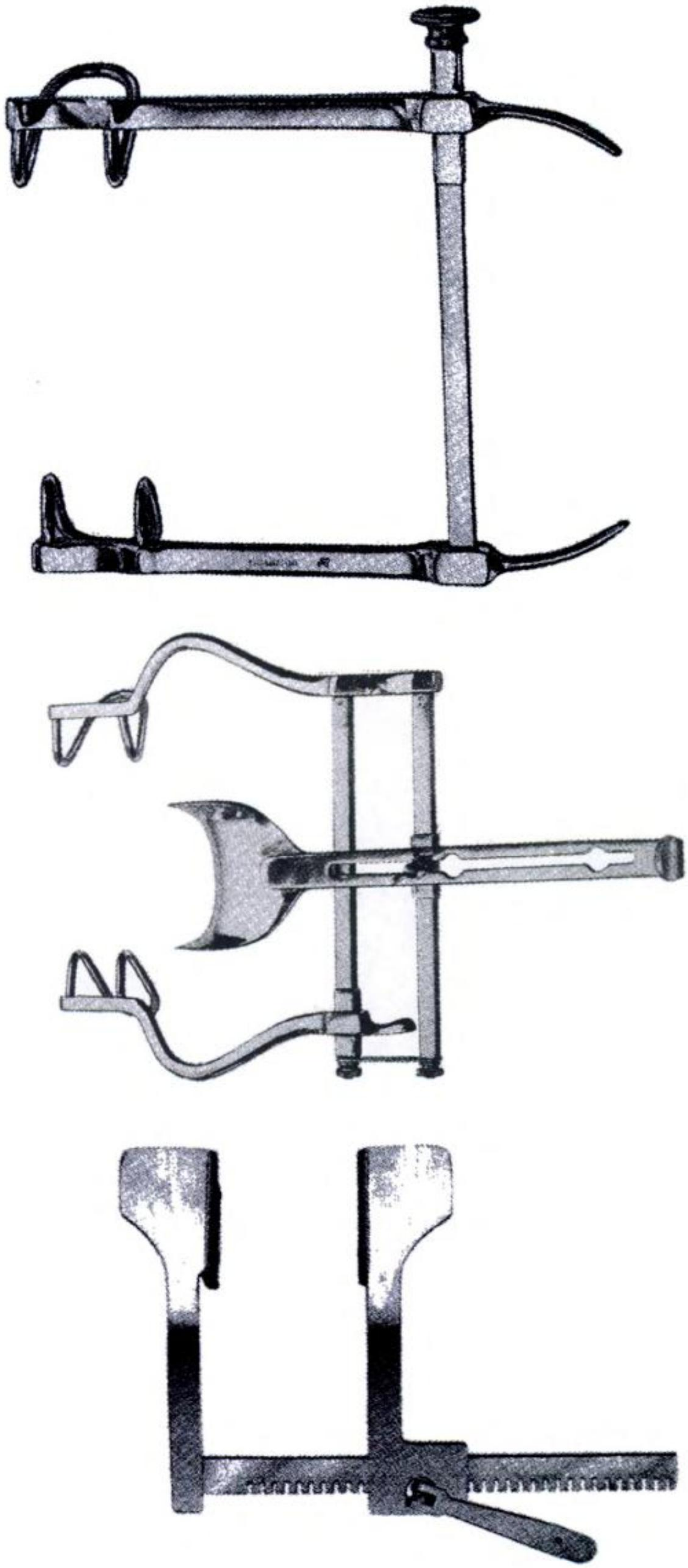
Name	Gosset
Purpose	Abdominal wall retraction
Size	Adult and infant sizes
Distinguishing Features	Square shape with straight arms No central retraction blade
Similar Instruments	None

Balfour

Name	Balfour
Purpose	Abdominal wall and liver retraction
Size	Standard size
Distinguishing Features	Curved arms and a central refractor blade with a wingnut
Similar Instrument	Bourne

Finochietto

Name	Finochietto
Purpose	Rib spreaders
Size	Standard size
Distinguishing Features	Toothed bracket (comb like) for retractor blade attachment
Similar Instruments	Tuffier



Needle Holders

Common Features

Flat tips of blades with stippled surface

Often have ring shaped finger grips

Often have ratchet to maintain closure

May be combined with scissor blades

Uses

Holding needles

Cutting sutures

Gillies

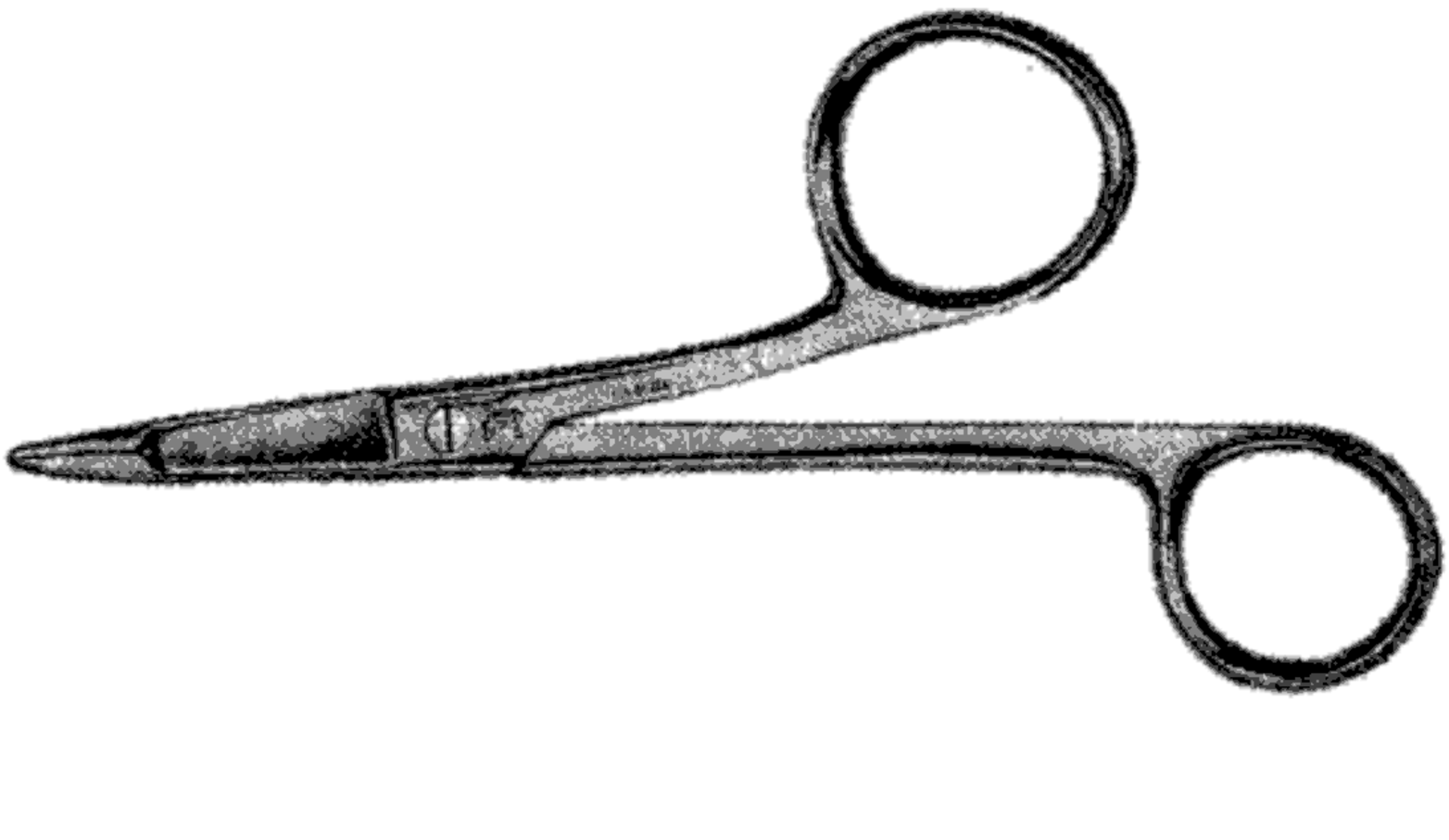
Name	Gillies (handheld)
Purpose	Holding needles and cutting sutures
Size	16 cm
Distinguishing Features	One handle shorter than the other with larger thumb/finger grip Has a cutting edge
Similar Instruments	None

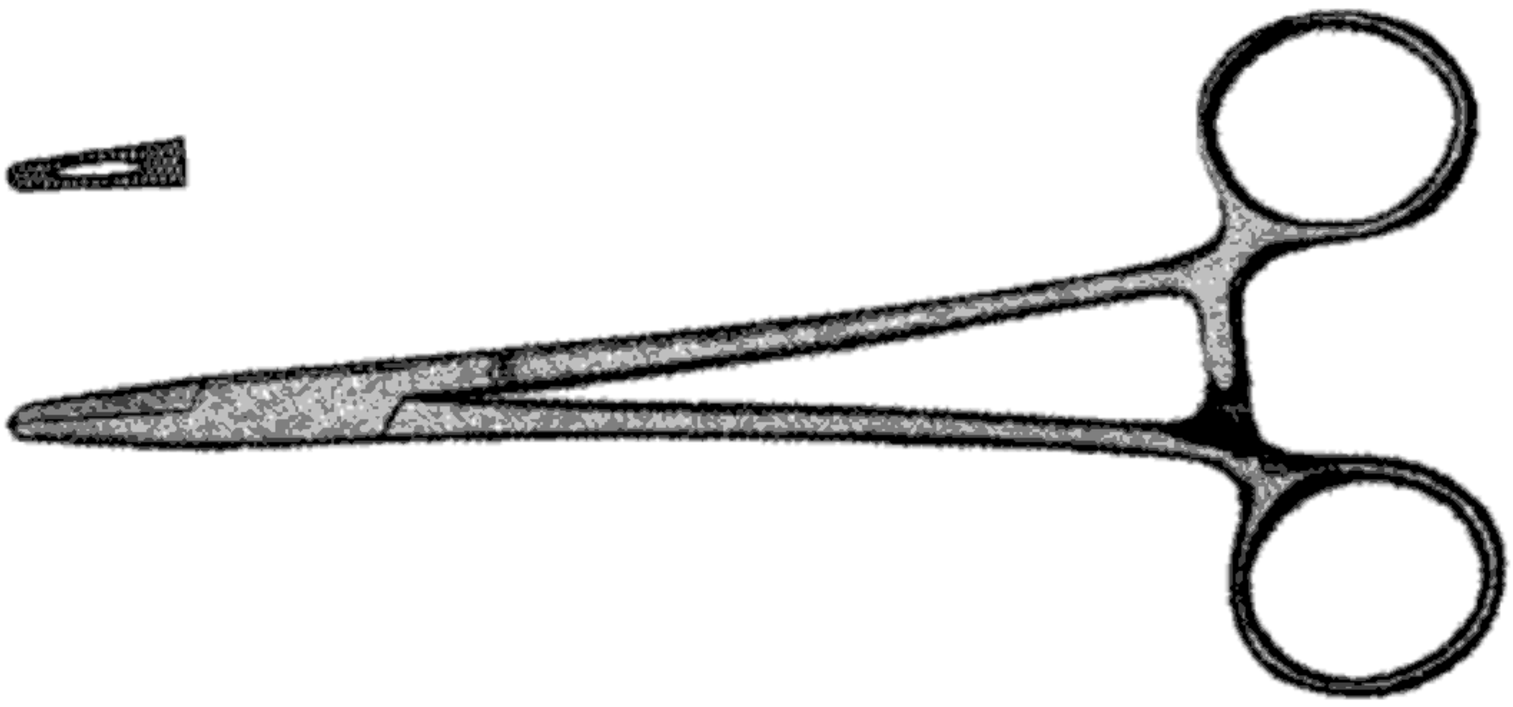
Mayo Hegar

Name	Mayo Hegar (self retaining) (gold handles indicateTungsten Carbide tips)
Purpose	Holding needles
Size	14 - 20 cm
Distinguishing Features	Flat tips not serrated (as in artery forceps) Indentation on grasping surface (see picture) which similar instruments do not have
Similar Instruments	Wright

Bruce Clarke

Name	Bruce Clarke (self retaining)
Purpose	Holding needles
Size	13 cm
Distinguishing Features	When closed, small circular holes are apparent along the length of the grasping surface
Similar Instruments	None



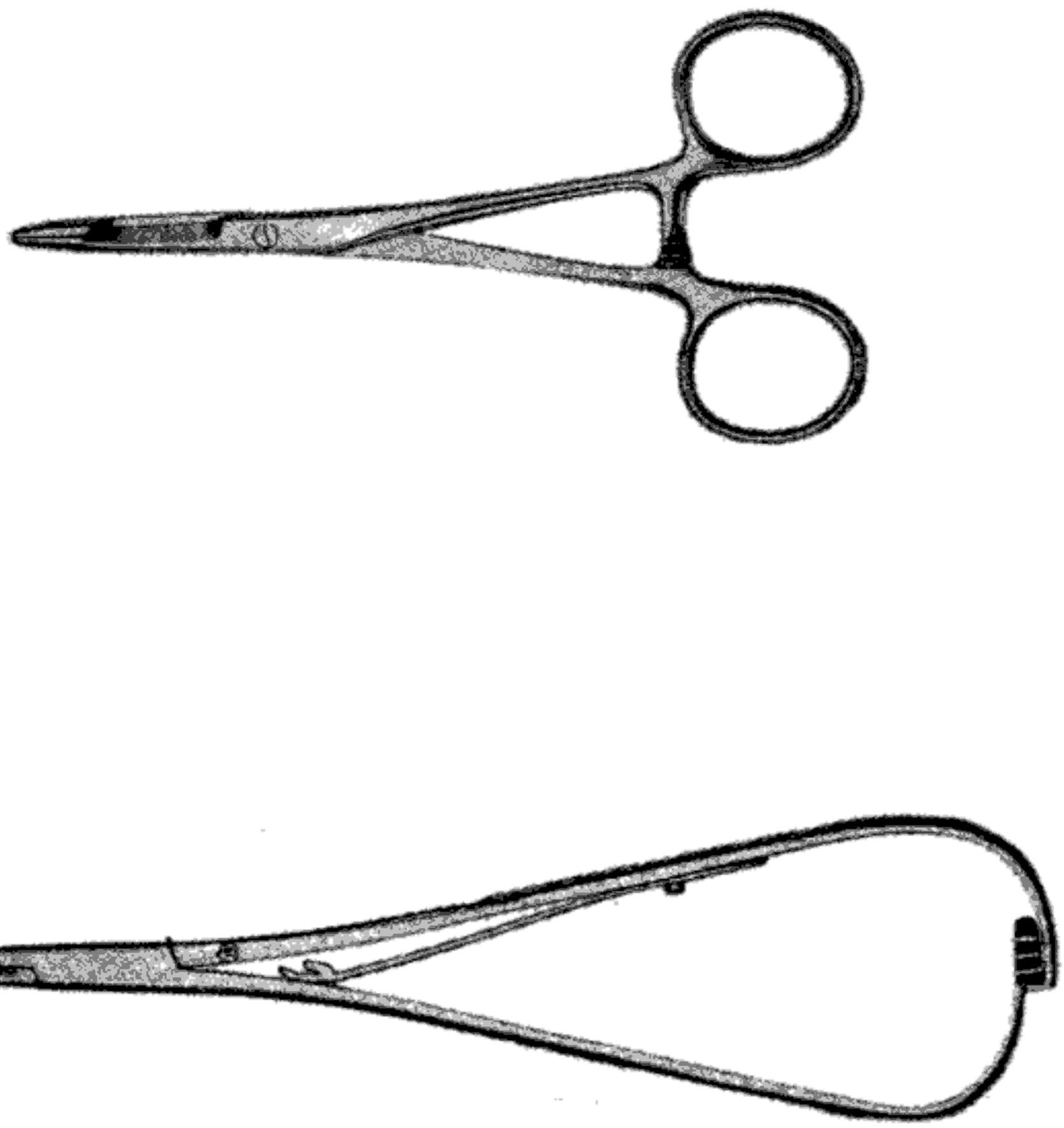


Olsen Hegar

Name	Olsen Hegar (self retaining)
Purpose	Holding needles and cutting sutures
Size	14 cm and 17 cm
Distinguishing Features	Scissors incorporated distal to the needle holding tips
Similar Instruments	None

McPhail

Name	McPhail (self retaining with copper lined jaw)
Purpose	Holding needles
Size	18 cm
Distinguishing Features	Copper lined jaws and pear shaped handles
Similar Instruments	None



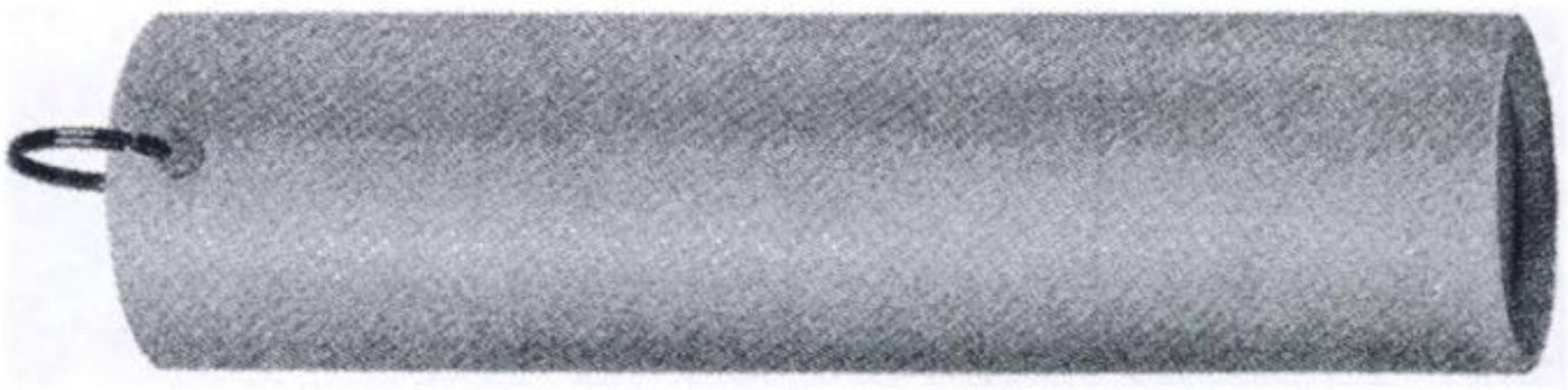
Diathermy Equipment

Lead/Cable

Name	Lead/cable (red rubber)
Purpose	For attachment of diathermy blade/forceps to the machine
Size	Standard length
Distinguishing Features	Hook at one end for attachment to the diathermy machine Usually made of red rubber
Similar Instruments	Bipolar diathermy cable

Quiver

Name	Quiver
Purpose	Holding diathermy blade/forceps/scissors
Size	Standard size
Distinguishing Features	Plastic hollow container with a ring at the top to secure with a towel clamp onto a drape
Similar Instruments	None



Beare Dissecting Forceps

Name	Beare Dissecting Forceps
Purpose	Holding tissues/vessels while diathermy takes place
Size	15 cm
Distinguishing Features	Rubber coated forceps (except tip and insertion) to connect to a diathermy lead
Similar Instruments	Waugh

Robin Anchoring Clip

Name	Robin Anchoring Clip
Purpose	Anchoring diathermy lead to drapes
Size	13 cm
Distinguishing Features	Bracket on either side of the body to hold diathermy lead
Similar Instruments	Could be confused with a Backhaus Towel Clamp

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Specialist Equipment

Orthopaedic Equipment

Implants

ASIF Equipment (Association for the Study of Internal Fixation)

Ophthalmic Instruments

Dental Instruments

Miscellaneous Instruments

Orthopaedic Equipment

Chisel

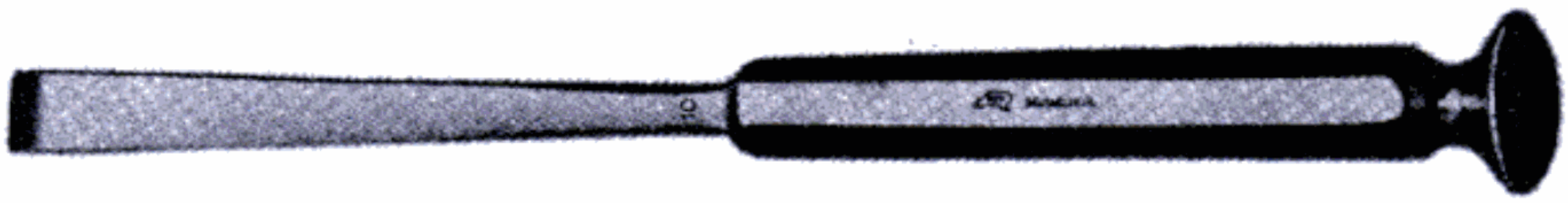
Name	Stille Chisel
Purpose	To shave bone
Size	20 cm
Distinguishing Features	Bevelled on <u>one</u> side only to allow the instrument to sit flush with bone
Similar Instruments	Osteotome

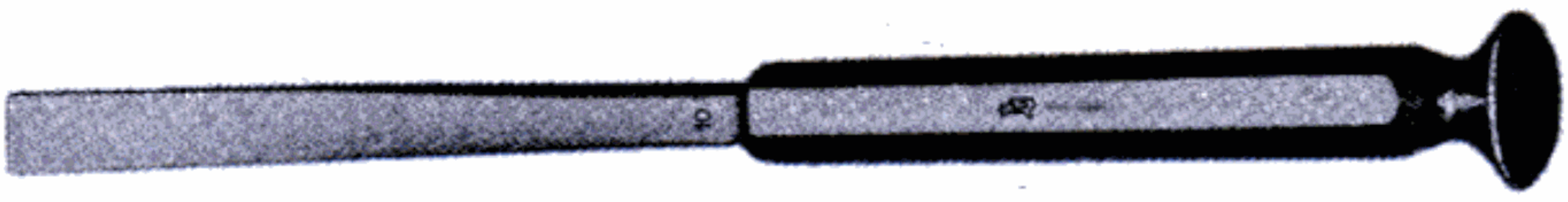
Osteotome

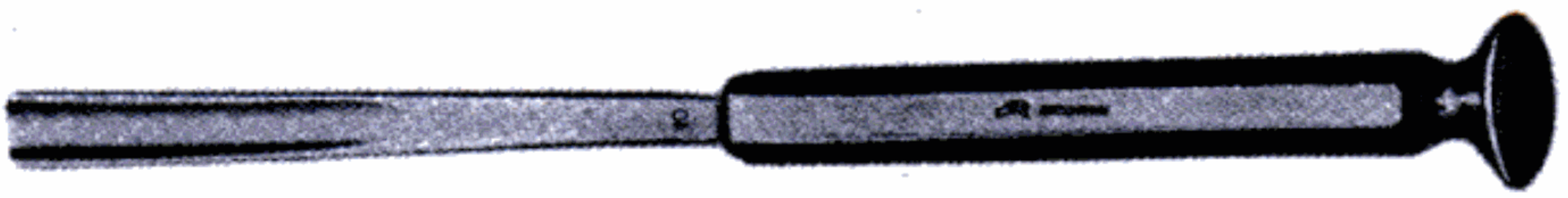
Name	Stille Osteotome
Purpose	To make a precise bone cut (e.g., trochanteric osteotomy, excision arthroplasty)
Size	20 cm
Distinguishing Features	Tip bevelled on <u>both</u> sides
Similar Instruments	Chisel

Gouge

Name	Stille Gouge
Purpose	To shave bone where bone contouring is needed
Size	20 cm
Distinguishing Features	Crescent moon-shaped tip
Similar Instruments	Osteotome, Chisel, Periosteal Elevator







Periosteal Elevator

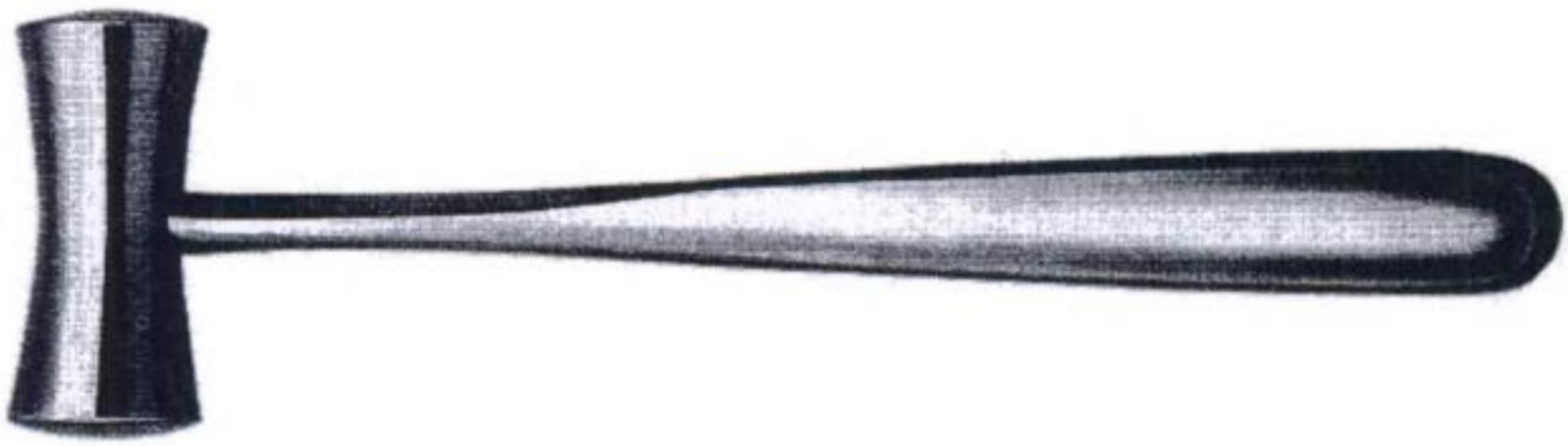
Name	Adson Periosteal Elevator
Purpose	Raise periosteum from bone before plating or drilling
Size	Jaw width 7 mm
Distinguishing Features	Rounded, curved tip
Similar Instruments	Bristow, Farabeuf

Mallet

Name	Small Mallet
Purpose	For use with chisels, gouges and osteotomes
Size	Weight 250 g (8.5 oz)
Distinguishing Features	It looks like a mallet
Similar Instruments	Heath

Rongeurs

Name	Stille Luer Rongeurs
Purpose	Nibbling pieces of bone
Size	21.5 cm
Distinguishing Features	Double action joint, small projections on handles Lever action to spring back into open position Cup like cutting tips
Similar Instruments	Jansen Middleton



Rongeurs

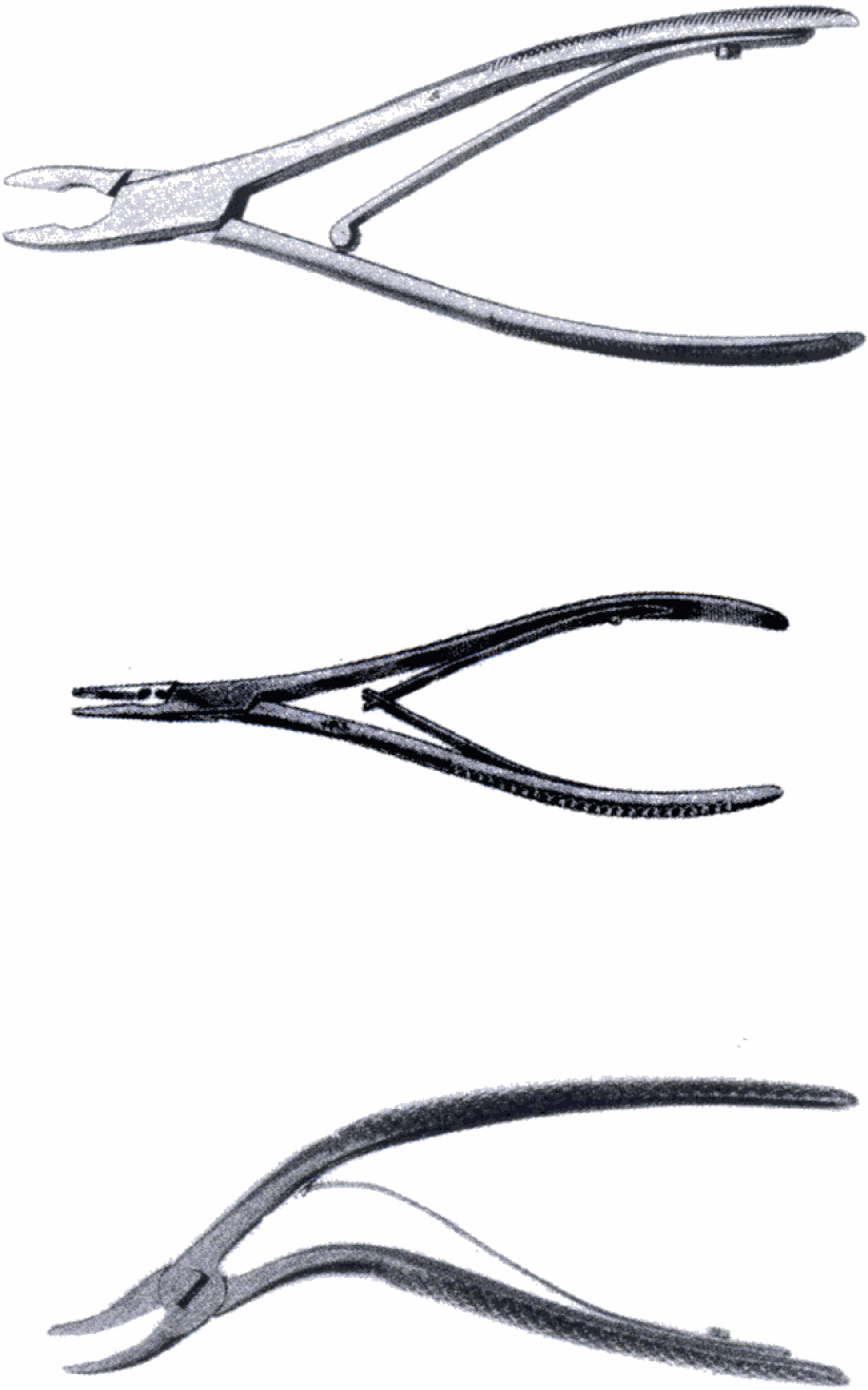
Name	Pennybacker Rongeurs
Purpose	Nibbling pieces of bone
Size	20 cm
Distinguishing Features	Spring action handles Cup like cutting tips
Similar Instruments	Northfield

Rongeurs

Name	Lempert Rongeurs
Purpose	Removal (fine) of bone and soft tissue in neurosurgery
Size	19 cm
Distinguishing Features	Fine tips
Similar Instruments	Cicherelli

Rongeurs

Name	Laminectomy Rongeurs
Purpose	Removal of cortical bone during certain spinal surgery
Size	Jaw widths 2, 3 and 4 mm
Distinguishing Features	Handles angled to allow good vision of surgical site Slim lower jaw
Similar Instruments	None



Bone Cutting Forceps

Name	Paton Bone Cutting Forceps
Purpose	To cut pieces of bone
Size	14 cm
Distinguishing Features	Single action bone cutting forceps Lever action in the centre Flat, sloping blades.
Similar Instruments	Liston

Bone Cutting Forceps

Name	Ruskin Liston (angled and straight) Bone Cutting Forceps
Purpose	To cut pieces of bone
Size	15 cm and 20 cm
Distinguishing Features	Double action joint allowing for less physical force to cut bone Delicate cutting blades
Similar Instruments	None

Bone Holding Forceps

Name	Fergusson Bone Holding Forceps
Purpose	Securing bone to prevent movement during orthopaedic procedures
Size	15 cm
Distinguishing Features	Heavy instrument Double toothed grip at the tip Not self retaining
Similar Instruments	None

Bone Holding Forceps

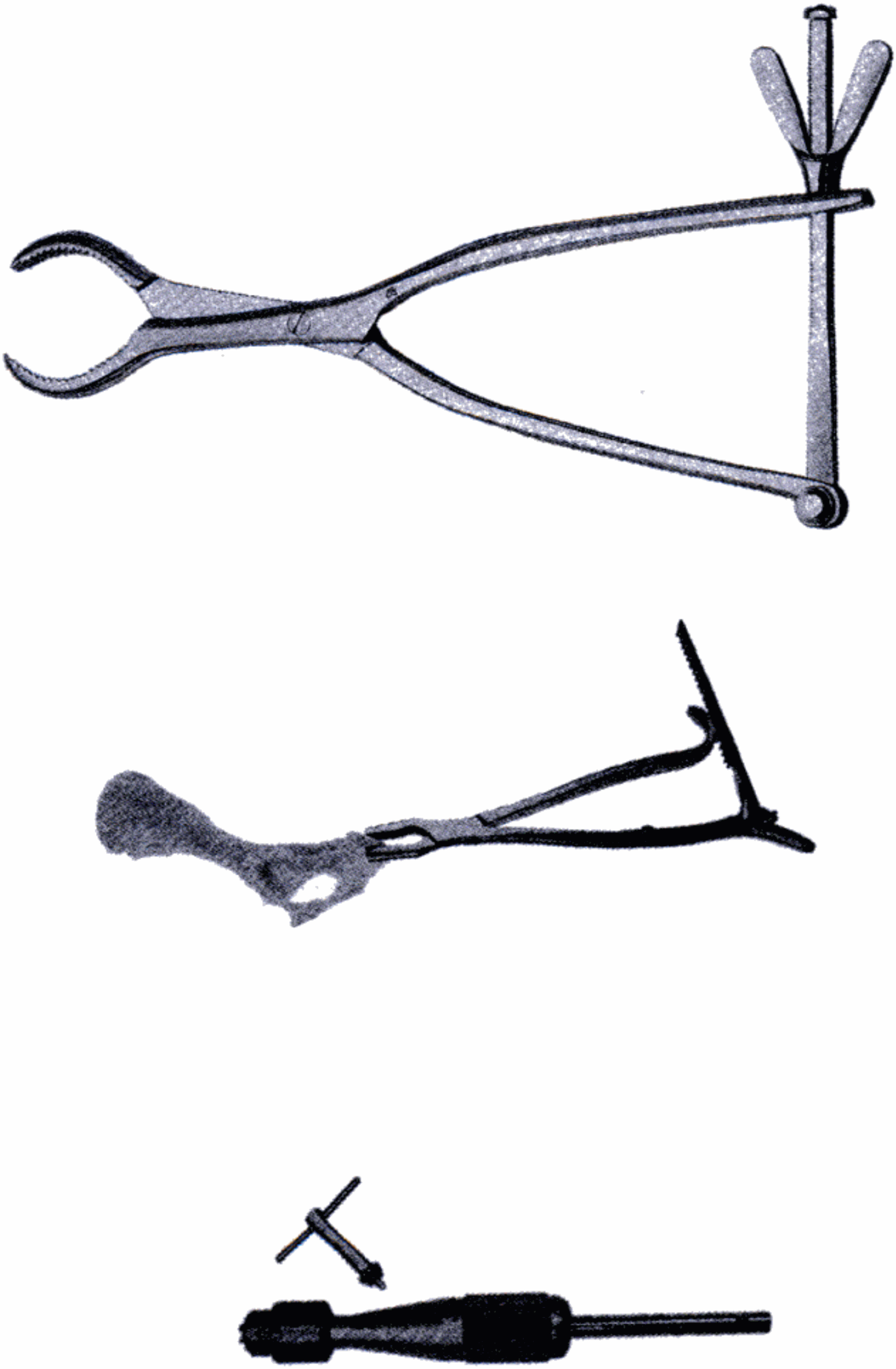
Name	Hey Grove Bone Holding Forceps
Purpose	Securing bone to prevent movement during orthopaedic procedures
Size	20, 25 and 30 cm
Distinguishing Features	Wing nut maintains closure of the tips
Similar Instruments	None

Bone Holding Forceps

Name	Kern Bone Holding Forceps
Purpose	Securing bone to prevent movement during orthopaedic procedures
Size	15cm and 16 cm
Distinguishing Features	Four pointed prongs on jaws for a non-slip grip
Similar Instruments	Lane Bone Holding Forceps

Jacobs Chuck for Intramedullary Pinning

Name	Jacobs Chuck for intramedullary pinning
Purpose	Introduction or extraction of pins, e.g., K wires and Steinmann pins
Size	Small (4 mm capacity) Standard (6 mm capacity)
Distinguishing Features	A very heavy instrument It has a hole through the centre of it to allow pin to be held Has a key with it to close aperture of three teeth around pin
Similar Instruments	None



Wire Twisters and Cutters

Name	Wire Twisters and Cutters
Purpose	Securing cerclage and tension band wires after placement
Size	16 cm
Distinguishing Features	Serrated jaws Look like pliers
Similar Instruments	ASIF wire twisters

Graft Passer

Name	Graft Passer
Purpose	Surgery for cruciate deficient stifle joints
Size	Head size 2 cm, 3 cm, 4.5 cm and 6 cm
Distinguishing Features	Curved head with a hole at the tip, like a giant sewing needle with a handl.
Similar Instruments	Wire passer - this has a curved head with a hole running through the centre of it

Curette

Name	Volkmann Curette
Purpose	Scraping cavities, eg, bone grafts and debridement
Size	16 cm
Distinguishing Features	Double ended One end has a round cup and the other has an oval cup
Similar Instruments	House Curette, Spratt Curette

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Implants

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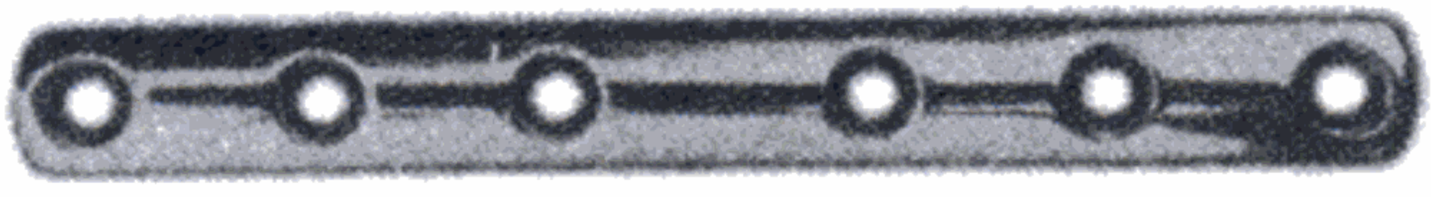

Plates

Name	Sherman Plate
Purpose	Fracture fixation
Size	Various lengths and numbers of holes
Distinguishing Features	The plate looks like the tracks on a sherman tank, ie, narrower between the holes
Similar Instruments	Burns and Lane

Plates

Name	Dynamic Compression Plate
Purpose	Fracture fixation and compression
Size	1.5 mm, 2.0 mm, 2.7 mm, 3.5 mm and 4.5 mm (narrow and broad)
Distinguishing Features	Rectangular plate with oval holes
Similar Instruments	Venables Plate

Plates

Name	Reconstruction Plate
Purpose	Fracture fixation and compression
Size	2 mm, 2.4 mm, 2.7 mm, 3.5 mm and 4.5 mm
Distinguishing Features	Rectangular plate with oval holes and bites taken out of each side
Similar Instruments	None

Screws

Name	Cancellous Screw (pre-tapped)
Purpose	For securing a plate to cancellous bone and re-attaching bone fragments
Size	3.5 mm, 4 mm and 6.5 mm
Distinguishing Features	Coarser thread than cortical screw for better "bite" into bone Blunt tip
Similar Instruments	Cortical Bone Screw

Screws

Name	Cortical Screw (pre-tapped)
Purpose	For securing a plate to cortical bone and re-attaching bone fragments
Size	2.0 mm, 2.7 mm, 3.5 mm and 4.5 mm
Distinguishing Features	Fine wedge shaped thread Hexagonal shaped hole in head Blunt tip
Similar Instruments	Cancellous Screws (pre-tapped)

Screws

Name	Self tapping Screw
Purpose	Plate fixation and re-attachment of bone fragments
Size	2.0 mm, 2.7 mm and 3.5 mm
Distinguishing Features	Sharp tip
Similar Instruments	Cancellous /cortical pre-tapped screws

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ASIF Equipment

Association for the Study of Internal Fixation

Drill Bit

Name	Drill Bit (quick coupling)
Purpose	To drill a hole into bone
Size	1.1 - 4.5 mm diameter
Distinguishing Features	Distal end tapered for quick coupling (as with tap)
Similar Instruments	Drill bit for other drills and Jacob Chuck

Drill Guide

Name	Drill Guide
Purpose	To guide and support the drill bit into the correct position during drilling through a plate in the neutral and load positions
Size	Must correspond with drill bit and plate sizes
Distinguishing Features	Long body with angled tips with coloured inserts at both ends
Similar Instruments	Other drill guides

Drill Sleeve

Name	Drill Sleeve
Purpose	To protect tissue from drill bits and taps
Size	Must correspond with the drill bit
Distinguishing Features	Long body with angled tips of uniform shape
Similar Instruments	Universal drill guide

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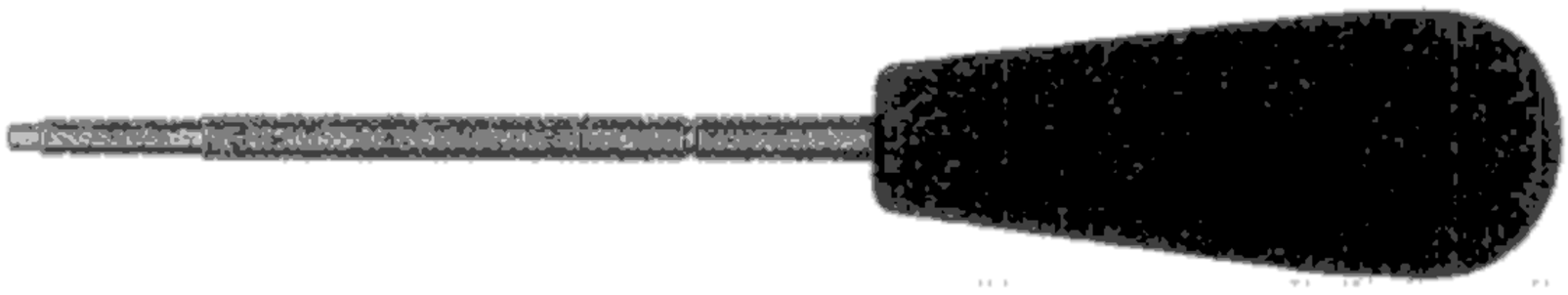
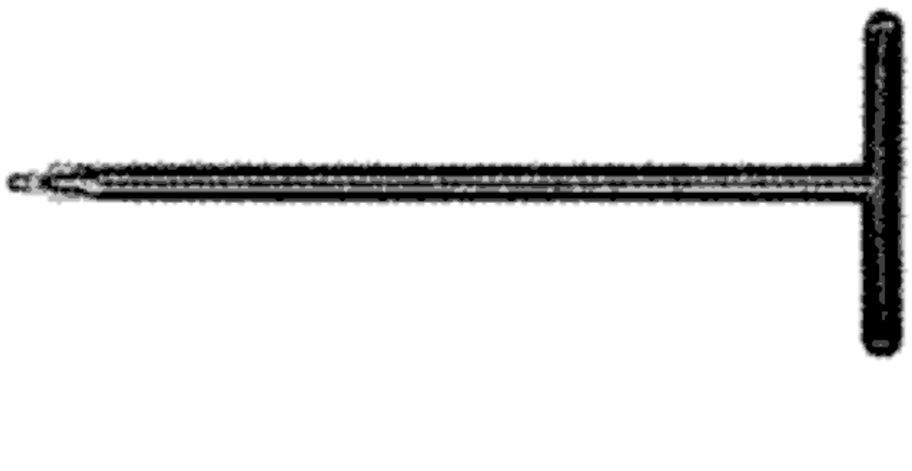
Screwdriver

Name	Screwdriver
Purpose	To screw screws into bone
Size	Corresponds with screw size
Distinguishing Features	All ASIF screwdrivers have a hexagonal head
Similar Instruments	None

Countersink (Quick Coupling)

Name	Countersink (quick coupling)
Purpose	To allow screws to sit flush with bone when a plate is not being used It also disperses forces from below the screw head.
Size	To correspond with screw size
Distinguishing Features	Fluted tip with nipple on end
Similar Instruments	None





Ophthalmic Instruments

Scissors

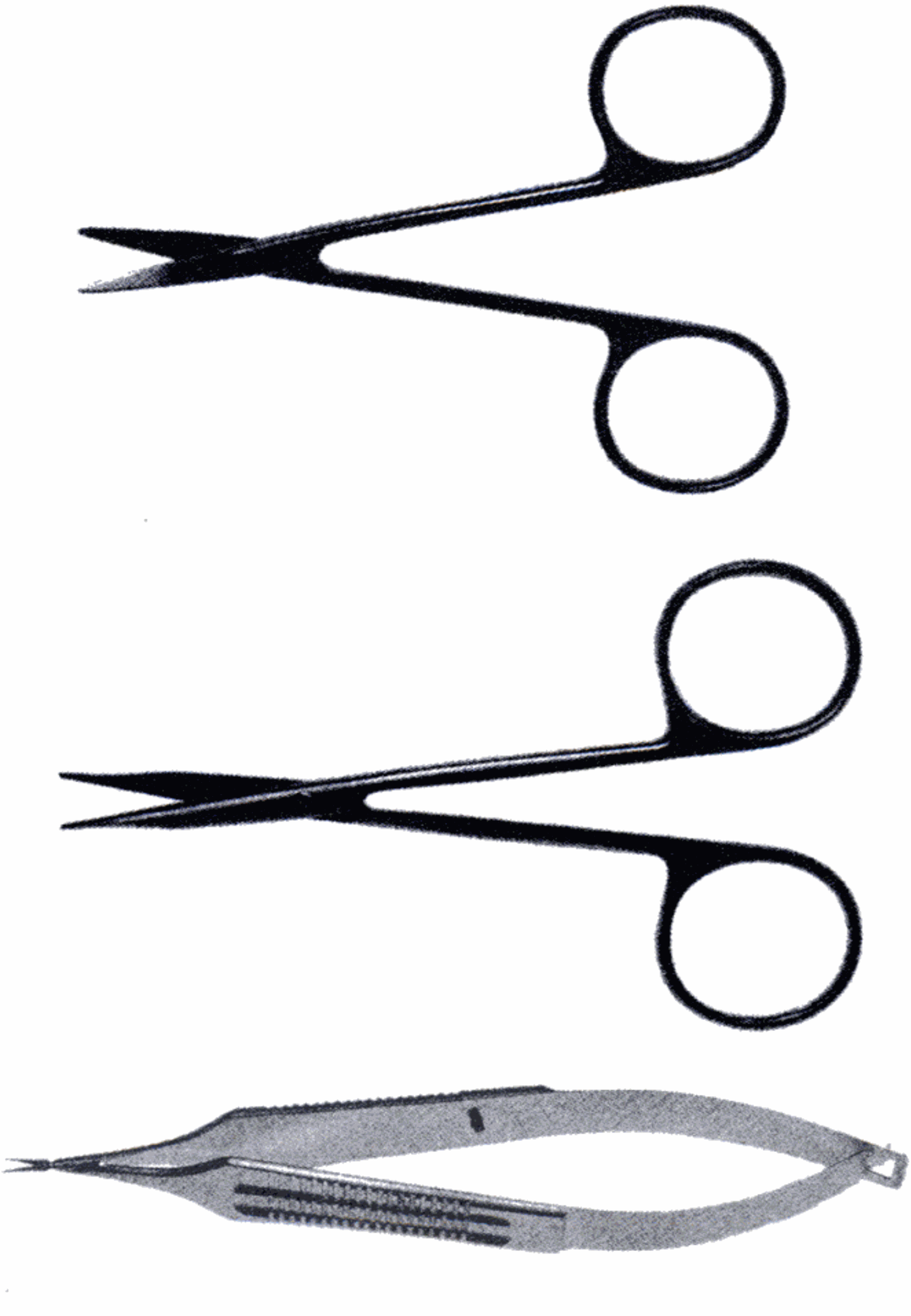
Name	Iris Scissors
Purpose	Cutting the iris. General purpose conjunctival scissors
Size	12 mm cutting length
Distinguishing Features	Small sharp scissors
Similar Instruments	Williamson - Noble Iris Scissors

Scissors

Name	Tenotomy (Stevens)
Purpose	For fine dissection during intra-ocular surgery
Size	20 - 35 mm blade length
Distinguishing Features	A tapering shaped end
Similar Instruments	None

Scissors

Name	Castroviejo - Vannus Capsulotomy (straight and curved)
Purpose	To cut away the anterior lens capsule during cataract surgery
Size	6 mm cutting length
Distinguishing Features	Spring action pear shaped handle and tiny blades
Similar Instruments	None



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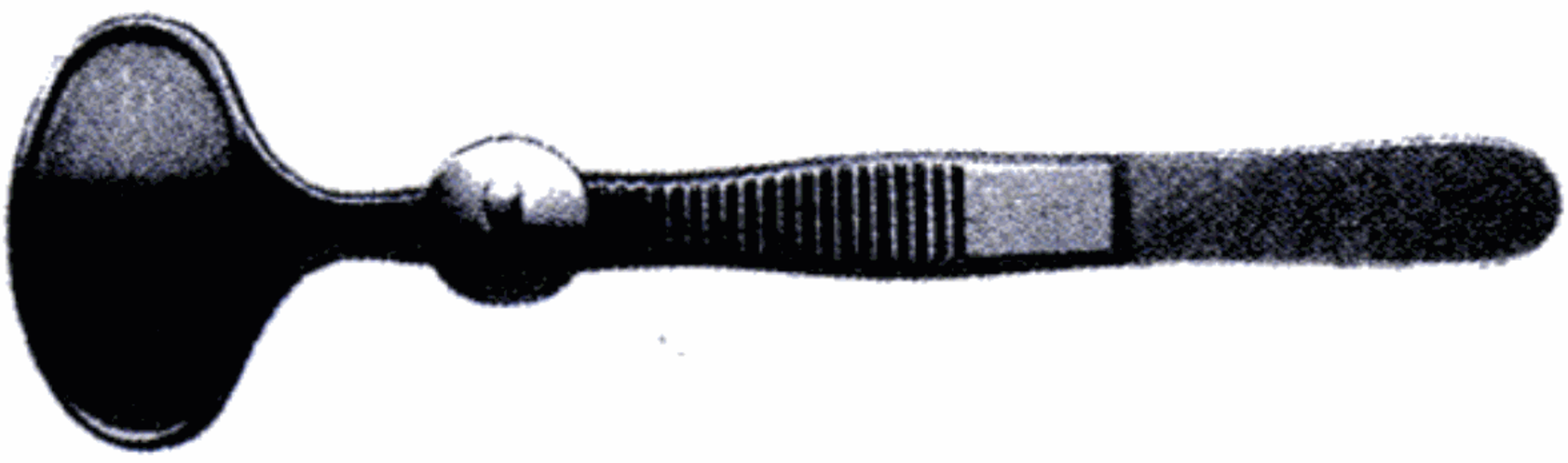
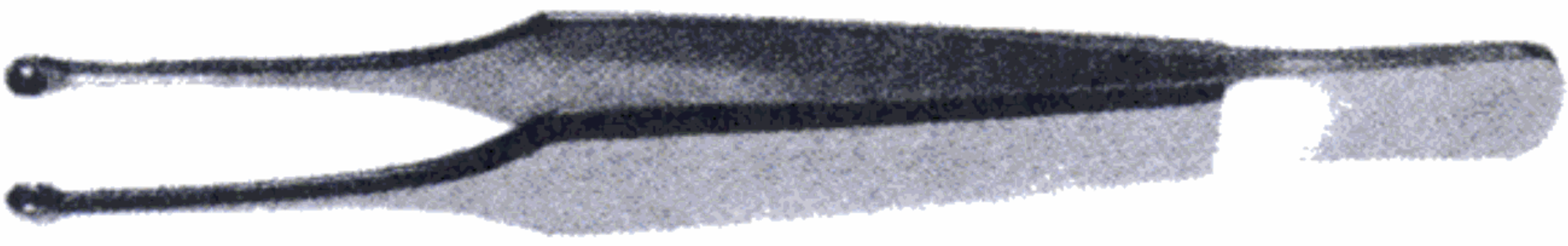




Forceps

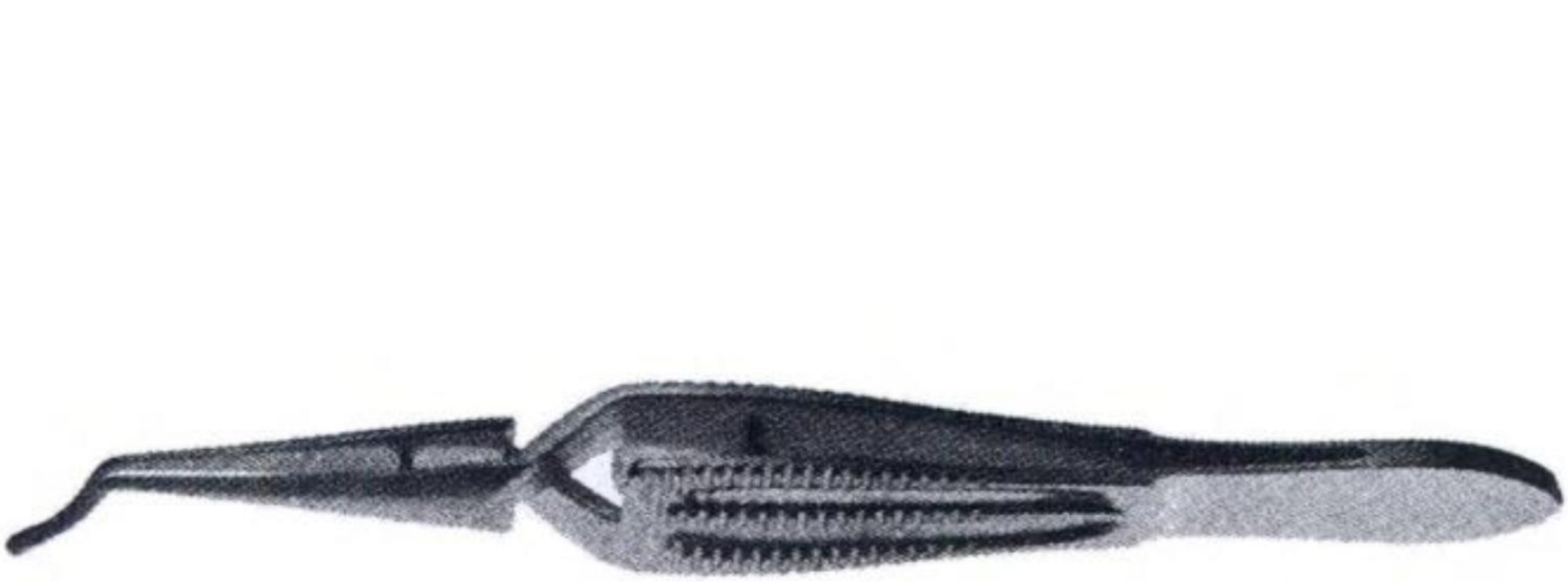
Name	Capsulorhexis Forceps
Purpose	To grasp and tear the lens capsule
Size	11 cm (length)
Distinguishing Features	Very fine tips with hooked ends
Similar Instruments	None

Forceps

Name	Micro-corneal Tying Forceps
Purpose	To tie very fine suture material (e.g., 10/0 Polyglactin 9/0)
Size	11 cm (length)
Distinguishing Features	Fine 'buck tooth' like tips
Similar Instruments	MacPherson Tying Forceps

Forceps

Name	Capsule Forceps
Purpose	To grab the anterior lens capsule during extra-capsular cataract extraction
Size	11 cm (length)
Distinguishing Features	Cross action, wide handle
Similar Instruments	None



Hook

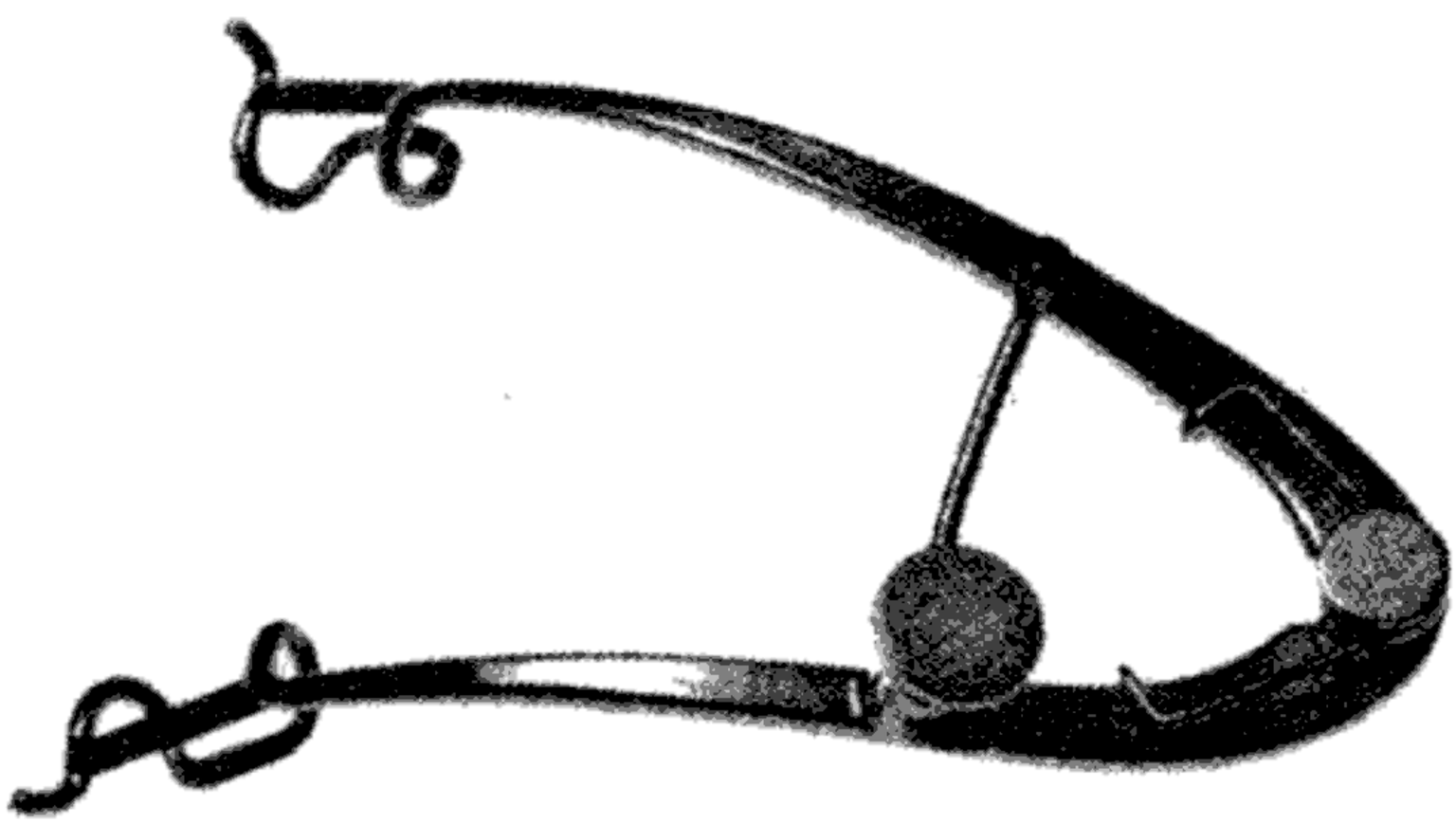
Name	Kirby Expressor Hook and Lens Loop
Purpose	Used during extra-capsular and intra-capsular lens removal The hook is used from the outside to put pressure on the lens and exteriorise it The loop is placed into the anterior chamber to help 'catch' the lens
Size	15 cm long
Distinguishing Features	It has a loop at one end and a blunt hook at the other
Similar Instruments	None have this combination

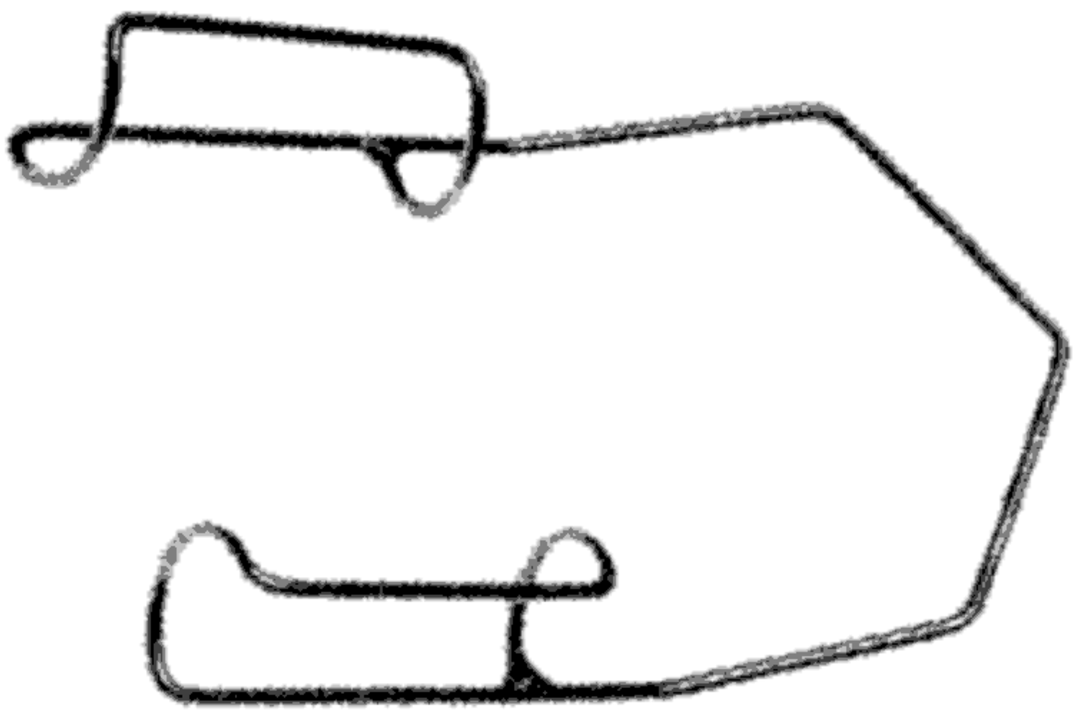
Speculum

Name	Williams Speculum
Purpose	To retract eyelids to allow access to eye ball
Size	8.5 cm long
Distinguishing Features	An adjustable screw at distal end to allow self retention
Similar Instruments	Clark and Lang Speculae

Speculum

Name	Barraquer Speculum
Purpose	To retract eye lids to allow access to the eye ball
Size	5 cm long
Distinguishing Features	Small fine speculum with no screw adjustment
Similar Instruments	Brown and Pierse Speculae



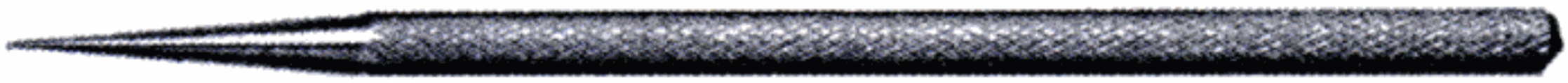


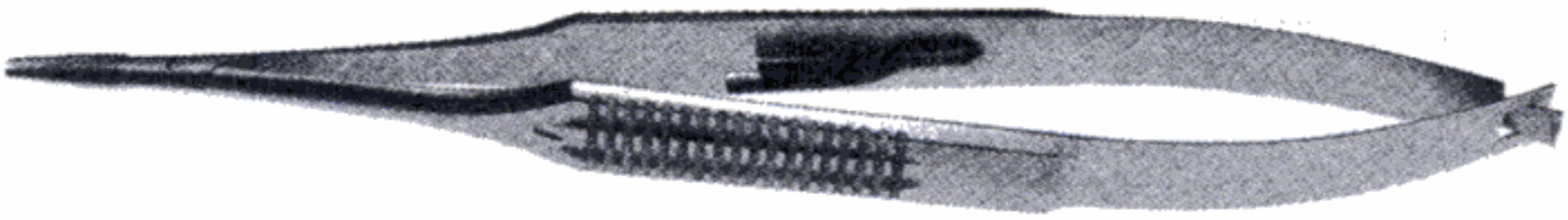
Dilator

Name	Nettleship Dilator
Purpose	To dilate narrow canals, eg, lacrimal duct
Size	11 cm
Distinguishing Features	It looks like a miniature javelin with longitudinal lines along the handle
Similar Instruments	Wilder Lacrimal Dilator (cross-hatching along the handle)

Needle Holders

Name	Castroviejo (Micro) Needle Holders
Purpose	Holding needles for suturing
Size	13 cm (length)
Distinguishing Features	Flat handles with no finger rings
Similar Instruments	Weiss, Troutman and Catford





Dental Instruments

Common Features

All hand instruments should be held in a modified pen grip

Many hand instruments are superficially similar and need careful studying to recognise their differences

Extraction Forceps

Name	Extraction Forceps (small and large)
Purpose	Extraction of the multi-rooted teeth in the dog and cat
Size	15 cm long (small), 20 cm long (large)
Distinguishing Features	Cup like cutting tips (similar to rongeurs)
Similar Instruments	Calculus Forceps

Dental Elevator

Name	Dental Elevator (chisel)
Purpose	To separate the attachment of the tooth root to the alveolar bone
Size	A variety of tip sizes to fit teeth of differing size and root diameter
Distinguishing Features	Single ended instrument with relatively large hexagonal or octagonal handles

Periosteal Elevator

Name	Periosteal Elevator (double ended)
Purpose	To elevate the gingiva to expose bone during tooth extractions and oral surgery
Size	16 cm long
Distinguishing Features	Angled, rounded tip
Similar Instruments	Dental Mixing Spatula, Dental Luxator

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Miscellaneous Instruments

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VETERINERY NURSING/VETERINERY SURGERY

BENNETT CILIA

CHEATLES

The current failure rate for students of Veterinary Nursing is high, due in part to the fact that there is a shortage of suitable texts available.

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