

UNIVERSITY of PENNSYLVANIA



**The University Archives
and Records Center**

**A Guide to the
Eadweard Muybridge, 1830 – 1904,
Collection, 1870 – 1981**

97.5 Cubic ft.

UPT 50 M993

Prepared by Amy Miller

October 2000

Revised by DiAnna Hemsath, January 2005,
and Mary D. McConaghy, September 2008

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PROVENANCE

This collection consolidates all University Archives' holdings related to Eadweard Muybridge. George E. Nitzsche served Penn in the early 20th century as its first publicity officer and after 1910, as its first and only "Recorder." He had a strong professional interest in documenting the University of Pennsylvania's role in advancing the medium of film. Nitzsche preserved some of Muybridge's equipment and negatives and assembled a partial run of the Muybridge collotypes. Nitzsche gave a large collection of negatives to the George Eastman House in the 1920's. He stored the remaining materials at the University of Pennsylvania Museum of Anthropology and Archaeology. In 1964, after his death, the Museum transferred the Nitzsche collection to the University Archives. The City of Philadelphia's Commercial Museum received a collection from of Muybridge apparatus and collotypes, including a set of gelatin negatives. Provost William Pepper donated the collection to the Commercial Museum after receiving it from the Photogravure Company. On October 1, 2001, after the closing of the Commercial Museum, by decree of the Orphan's Court Division of the Court of Common Pleas of Philadelphia County, the City donated its Muybridge collection to the University Archives.

ARRANGEMENT

The materials in the Eadweard Muybridge collection is organized into six series: *Animal Locomotion* study collotypes and publications, 1887; photographs, 1882-1917; correspondence contemporary with the study, 1887-1901; miscellaneous documentation, 1870-1899; camera and related apparatus; and other published materials, 1885-1981, including secondary sources and clippings from periodicals. The first, second, and fourth series are arranged alphabetically, then numerically by number if applicable. The third and sixth series are arranged chronologically. The sixth series is arranged by box number.

BIOGRAPHICAL NOTE

Eadweard James Muybridge was born on April 9, 1830 as Edward Muggeridge at Kingston-on-Thames, England, the son of John and Susannah (Smith) Muggeridge. In 1852, Muybridge immigrated to the United States. After a brief career in the printing business, Muybridge studied photography and eventually gained recognition for his landscape photographs of the American West. In 1872, the railroad tycoon and then-governor of California, Leland Stanford, asked Muybridge to help settle a \$25,000 bet. The bet required Muybridge to take photographs of a running horse to prove that it had all four feet in the air at some point. However, his attempt was inconclusive. Five years later, 1877 Muybridge improved the mechanics of his photographic process using a bank of cameras with mechanically tripped shutters. With his new system, he photographed Stanford's horse *Occident* and proved that a running horse indeed lifted all four feet at some point. This incident inspired him to continue the study of animals in motion, a new venture in the field of science and photography.

With the financial backing of Stanford, Muybridge obtained more action photographs of animals culminating in the publication of *The Horse in Motion* (1877) and *The Attitudes of Animals in Motion, A Series of Photographs Illustrating the Consecutive Positions Assumed by Animals in Performing Various Movements* (1878). In 1878, *Scientific American* and *La Nature* published reproductions of photographs in the *Horse in Motion*. Subscribers could place these reproductions in their zoetrope to view the stop motion photographs in rapid succession. Muybridge took the animating capability of the zoetrope further by inventing the zoopraxiscope in 1879. The zoopraxiscope projected images of slides placed on a large disk onto a screen. Muybridge spent most of 1881-1882 in Paris and London exhibiting the zoopraxiscope and lecturing on animal motion.

Muybridge's ties to Philadelphia began when Fairman Rogers, then head of the Pennsylvania Academy of Fine Arts and Thomas Eakins, artist and professor of drawing and painting at the Academy, corresponded with Muybridge about his Palo Alto photographs. In 1883, Rogers invited Muybridge to give two lectures at the Academy. Also in 1883 several important Philadelphians, including J.B. Lippincott and the provost William Pepper attended a meeting in the office of the provost of the University of Pennsylvania. During this meeting, the men decided to provide Muybridge with the grounds of the Veterinary Hospital and a \$5,000 advance to begin work on the landmark study, *Animal Locomotion*. Starting in 1884, the University constructed an outdoor studio for Muybridge near 36th and Pine. The outdoor studio consisted of a three-sided black shed. White strings hung on the back wall of the shed to form a grid to measure the movement of a human or animal as it passed through the frames. For the production of the *Animal Locomotion* study, he improved his photographic techniques by using dry plate technology, rather than the wet plate technology he had previously used. He also equipped his three batteries of twelve cameras each with electronically released shutters, allowing shorter exposure times.

The *Animal Locomotion* study contains 781 photographs of males and females performing common actions, often nude; physically deformed males and females from the

Philadelphia Hospital and a variety of animal species from the Philadelphia Zoo. This study, completed in 1887 and published under the sponsorship of the University, would prove to be of great use to artists, anatomists, physiologists, and athletes.

After the completion of *Animal Locomotion*, Muybridge returned to his birthplace to reside. At the World's Columbian Exposition in Chicago, he ran "Zoopraxographical Hall" in 1893 for which the University of Pennsylvania received an award. He later published *Descriptive Zoopraxography* (1893) and *The Human Figure in Motion* (1901). Muybridge died in England on May 8, 1904, survived by wife Flora Shallcross.

SCOPE AND CONTENT

The Eadweard Muybridge Collection document his photographic career and the contributions he made to motion pictures. Muybridge's *Animal Locomotion* study, done under the auspices of the University of Pennsylvania, represents the bulk of this collection. The *Animal Locomotion* study collotypes and publications contain a nearly complete set of collotype plates of images. Included in this series are original copies of the books *Animal Locomotion, Prospectus and Catalog of Plates*, 1887 and *Descriptive Zoopraxography or the Science of Animal Locomotion*, 1893. Reviews of the *Animal Locomotion* book and an offer to subscribe to the plates are also in the series.

Photographs comprise another series. Included in this series are photographs of Muybridge and non-collotype reproductions of the plates in the *Animal Locomotion* study. The correspondence contemporary with the study series contains letters regarding the creation and promotion of the *Animal Locomotion* study, including requests for equipment; project updates and lecture arrangements. Muybridge wrote many of these letters to Jesse Burk, the Secretary of the University. The letters date from 1887 to 1901.

Eadweard Muybridge Collection
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Cameras and related apparatus include a race track camera, a copy camera, camera backs, lens and their mountings, plates and plate holders, cropping masks, contact printing frames, and a retouching desk. Also in the collection is a Milton Bradley zoetrope. These items have been identified with the assistance of Todd Gustavson, Curator of the Technological Department at George Eastman House.

Included in the miscellaneous documentation series are Muybridge's panoramic view of San Francisco; a program from a motion picture exhibition that preceded Muybridge's work, and the copyrights for *Animal Locomotion* among other documents. Much of the published material series concerns the history of Muybridge and his relationship to the advent of motion pictures.

Other collections at the University of Pennsylvania relate to Eadweard Muybridge. At the beginning of the twentieth-century, the University Recorder, George E. Nitzsche, conducted considerable research in documenting Muybridge's work and activities while at the University. His papers can be found in UPA 9. The Dr. William Pepper Papers at the Walter H. & Leonore Annenberg Rare Book & Manuscript Library of the University of Pennsylvania contain additional material.

University Archives and Records Center
University of Pennsylvania

**Eadweard Muybridge, 1830-1904,
Collection, 1870-1981**

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INVENTORY

Animal Locomotion Study Collotypes and Publications

Box 62	FF 1	Descriptive Zoopraxography or the Science of Animal Locomotion, 1893
	FF 2	Prospectus and Catalog of Plates, 1887
	FF 3	Prospectus and Catalog of Plates, 1887
	FF 4	Reviews
	FF 5	Subscription Offer
		Plates
Oversize 1 - 3		Plate 1 Movements, Male, Walking
		Plate 2 Movements, Male, Walking
		Plate 3 Movements, Male, Walking
		Plate 4 Movements, Male, Walking
		Plate 5 Movements, Male, Walking
		Plate 6 Movements, Male, Walking
		Plate 7 Movements, Male, Walking

Animal Locomotion Study Collotypes and Publications (cont.)

Plates

Oversize 1 - 3

Plate 8 Movements, Male, Walking

Plate 9 Movements, Male, Walking

Plate 10 Movements, Male, Walking

Plate 11 Movements, Male, Walking

Plate 12 Movements, Male, Walking

Plate 13 Movements, Female, Walking

Plate 15 Movements, Female, Walking

Plate 16 Movements, Female, Walking

Plate 17 Movements, Female, Walking

Plate 18 Movements, Female, Walking, left hand across
abdomen

Plate 19 Movements, Female, Walking, commencing to
turn around

Plate 20 Movements, Female, Walking, right elbow bent

Plate 21 Movements, Female, Walking, both elbows bent

Plate 22 Movements, Female, Walking, with high-heeled
boots on

Plate 23 Movements, Female, Walking, right hand at chin,
high-heeled shoes on

Eadweard Muybridge Collection
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Inventory

Animal Locomotion Study Collotypes and Publications (cont.)

Plates

Oversize 1 - 3

Plate 24 Movements, Female, Walking, with high-heeled shoes on

Plate 25 Movements, Female, Walking, with high-heeled shoes on

Plate 26 Movements, Male, Walking, carrying 75-lb. stone on left shoulder

Plate 27 Movements, Male, Walking, carrying 75-lb. stone on head, hands raised

Plate 28 Movements, Male, Walking, carrying 50-lb. dumb-bell in right hand

Plate 29 Movements, Male, Walking, carrying bucket of water in each hand

Plate 30 Movements, Male, Walking, carrying bucket of water in each hand

Plate 31 Movements, Male, Walking, carrying 75-lb. stone on right shoulder

Plate 32 Movements, Female, Walking, carrying bucket of water in each hand

Plate 33 Movements, Female, Walking, carrying 14-lb. basket on head, hands raised

Plate 34 Movements, Female, Walking, carrying 15-lb. basket on head, hands raised

Plate 35 Movements, Female, Walking, carrying child (70) on right arm

Animal Locomotion Study Collotypes and Publications (cont.)

Plates

Oversize 1 - 3

Plate 36 Movements, Female, Walking, carrying child on left arm

Plate 37 Movements, Female, Walking, left hand holding dress, right hand at face

Plate 38 Movements, Female, Walking, opening parasol

Plate 39 Movements, Female, Walking, hands engaged in knitting

Plate 40 Movements, Female, Walking, throwing handkerchief over shoulders

Plate 41 Movements, Female, Walking, flirting a fan

Plate 42 Movements, Female, Walking, pouring water from pitcher

Plate 43 Movements, Female, Walking, sprinkling water from basin, turning around

Plate 44 Movements, Male, Walking, taking off hat

Plate 45 Movements, Female, Walking, two models meeting, and partly turning

Plate 46 Movements, Female, Walking, flirting a fan, and turning around

Plate 47 Movements, Female, Walking and turning around

Plate 48 Movements, Female, Walking and turning around bouquet in both hands

**Eadweard Muybridge Collection
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Inventory**

Animal Locomotion Study Collotypes and Publications (cont.)

Plates

Oversize 1 - 4

Plate 50 Movements, Female, Walking and turning around, carrying bucket of water in left hand

Plate 51 Movements, Female, Walking turning around, using sprinkling pot

Plate 52 Movements, Female, Walking carrying child, turning around; another child (70) holding on to dress of 93

Plate 53 Movements, Female, Walking scattering flowers and turning around

Plate 54 Movements, Female, Walking two models (one flirting a fan), arm in arm, turning around

Plate 55 Movements, Female, Walking turning around, action of aversion

Plate 56 Movements, Female, Walking turning and stooping to lift train

Plate 57 Movements, Female, Walking turning around, 10lb. basket on head

Plate 58 Movements, Female, Walking turning around, sweeping the floor

Plate 59 Movements, Male, Starting for a run (shoes)

Plate 60 Movements, Male, Running at a half-mile gait (shoes)

Plate 61 Movements, Male, Running full speed (imperfect action, shoes)

Plate 63 Movements, Male, Running full speed

Animal Locomotion Study Collotypes and Publications (cont.)

Plates

Oversize 1 - 4

Plate 65 Movements, Male, Running full speed

Plate 66 Movements, Male, Running

Plate 67 Movements, Male, Running

Plate 68 Movements, Male, Running

Plate 69 Movements, Male, Running two models

Plate 71 Movements, Female, Running

Plate 72 Movements, Female, Running leading child (70)
hand in hand

Plate 73 Movements, Female, Turning around in surprise
and running away

Plate 74 Movements, Male, Ascending incline, angle 1 in 4

Plate 75 Movements, Male, Ascending incline

Plate 76 Movements, Female, Ascending incline

Plate 77 Movements, Female, Ascending incline

Plate 78 Movements, Female, Ascending incline, flirting a
fan

Plate 79 Movements, Female, Ascending incline

Plate 80 Movements, Female, Ascending incline, 20-lb.
basket on head

Animal Locomotion Study Collotypes and Publications (cont.)

Plates

Oversize 1 - 4

Plate 81 Movements, Female, Ascending incline, bucket of water in each hand

Plate 82 Movements, Female, Ascending incline, bucket of water in each hand

Plate 83 Movements, Female, Ascending incline, bucket of water in right hand

Plate 84 Movements, Female, Ascending incline, bucket of water in right hand

Plate 85 Movements, Female, Ascending incline, (wearing shoes)

Plate 87 Movements, Female, Ascending incline, bucket water each hand (shoes)

Plate 88 Movements, Male, Ascending stairs

Plate 89 Movements, Male, Ascending stairs

Plate 90 Movements, Male, Ascending stairs

Plate 91 Movements, Male, Ascending stairs

Plate 92 Movements, Female, Ascending stairs

Plate 93 Movements, Female, Ascending stairs

Plate 94 Movements, Female, Ascending stairs looking around; basin in hands

Plate 95 Movements, Female, Ascending stairs a basin in hands

Eadweard Muybridge Collection
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Inventory

Animal Locomotion Study Collotypes and Publications (cont.)

Plates

Oversize 1 - 4

Plate 96 Movements, Female, Ascending stairs looking round, waving handkerchief

Plate 99 Movements, Female, Turning and ascending stairs

Plate 100 Movements, Female, Turning and ascending stairs

Plate 101 Movements, Female, Turning and ascending stairs, waving hand

Plate 102 Movements, Female, Turning, ascending stairs, bucket water in right hand

Plate 103 Movements, Female, Turning and ascending stairs, pitcher and goblet in hands

Plate 104 Movements, Female, Turning, ascending stairs, bucket water in each hand

Plate 105 Movements, Female, Turning, ascending stairs, water jar on left shoulder

Oversize 2 - 1

Plate 106 Movements, Female, Turning to ascend stairs, bucket of water in each hand

Plate 107 Movements, Female, Turning to ascend stairs, bucket of water and broom in hands

Plate 108 Movements, Female, Turning to ascend stairs; stooping, lifting a pitcher

Plate 109 Movements, Male, Ascending step-ladder

Plate 110 Movements, Female, Ascending step-ladder two steps at a time

Animal Locomotion Study Collotypes and Publications (cont.)

Plates

Oversize 2 - 1

Plate 111 Movements, Male, Ascending ladder

Plate 112 Movements, Female, Ascending ladder

Plate 113 Movements, Male, Descending incline, angle 1
in 4

Plate 114 Movements, Male, Descending incline

Plate 115 Movements, Female, Descending incline with
hands clasped in front .

Plate 116 Movements, Female, Descending incline one
hand on chin

Plate 118 Movements, Female, Descending incline

Plate 119 Movements, Female, Descending incline right
hand on breast (shoes)

Plate 120 Movements, Female, Descending incline bucket
of water in right hand

Plate 121 Movements, Female, Descending incline bucket
of water in each hand

Plate 122 Movements, Female, Descending incline bucket
of water in each hand

Plate 123 Movements, Female, Descending incline, 20-lb.
basket on head, hands raised

Plate 124 Movements, Female, Descending incline, 20-lb.
basket on head, hands raised

Plate 125 Movements, Male, Descending stairs

Animal Locomotion Study Collotypes and Publications (cont.)

Plates

Oversize 2 - 1

Plate 126 Movements, Male, Descending stairs

Plate 127 Movements, Male, Descending stairs

Plate 128 Movements, Female, Descending stairs hands
clasped

Plate 129 Movements, Female, Descending stairs

Plate 130 Movements, Female, Descending stairs

Plate 131 Movements, Female, Descending stairs waving
hand

Plate 132 Movements, Female, Descending stairs turning
to look around, and waving hand

Plate 133 Movements, Female, Descending stairs throwing
handkerchief over shoulders

Plate 134 Movements, Female, Descending stairs with
basin in hands

Plate 136 Movements, Male, Descending stairs full
demijohn on shoulder

Plate 137 Movements, Female, Descending stairs turning
around

Plate 138 Movements, Female, Descending stairs turning;
pitcher in left hand

Plate 139 Movements, Female, Descending stairs turning

Plate 140 Movements, Female, Descending stairs looking
around and waving fan

Animal Locomotion Study Collotypes and Publications (cont.)

Plates

Oversize 2 - 2

Plate 142 Movements, Female, Descending stairs turning dress caught

Plate 143 Movements, Female, Descending stairs turning cup and saucer in right hand

Plate 144 Movements, Female, Descending stairs turning basin in hands

Plate 145 Movements, Female, Descending stairs turning bucket water in right hand

Plate 146 Movements, Female, Descending stairs turning water jar on left shoulder

Plate 147 Movements, Female, Descending stairs turning water jar on right shoulder

Plate 148 Movements, Female, Descending stairs turning carrying bucket of water and broom

Plate 149 Movements, Female, Descending stairs stooping to lift a pitcher

Plate 150 Movements, Female, Descending stairs stooping lifting pitcher, turning

Plate 151 Movements, Male, Descending step-ladder, turning around, rock in hands

Plate 152 Movements, Male, Jumping; running straight high jump (shoes)

Plate 153 Movements, Male, Jumping; running straight high jump (shoes)

Animal Locomotion Study Collotypes and Publications (cont.)

Plates

Oversize 2 - 2

Plate 154 Movements, Male, Jumping; running straight high jump

Plate 156 Movements, Female, Jumping; running straight high jump

Plate 157 Movements, Male, Jumping; running twist high jump (shoes)

Plate 158 Movements, Male, Jumping; running twist high jump (shoes)

Plate 159 Movements, Male, Jumping; running broad jump (shoes)

Plate 160 Movements, Male, Jumping; running broad jump (shoes)

Plate 161 Movements, Male, Jumping; standing high jump

Plate 162 Movements, Male, Jumping; standing broad jump

Plate 163 Movements, Male, Jumping; standing broad jump (shoes)

Plate 165 Movements, Male, Jumping; pole vaulting

Plate 166 Movements, Male, Jumping; over man's back (leap-frog)

Plate 167 Movements, Male, Jumping; over boy's back (leap-frog)

Plate 168 Movements, Male, Jumping; over boy's back (leap-frog)

Animal Locomotion Study Collotypes and Publications (cont.)

Plates

Oversize 2 - 2

Plate 169 Movements, Male, Jumping; over boy's back (leap-frog)

Plate 170 Movements, Female, Jumping from stone to stone across a brook

Plate 171 Movements, Female, Stepping up on a trestle; jumping down, turning

Plate 175 Movements, Female, Crossing brook on step-stones with fishing-pole and can

Oversize 2 - 3

Plate 178 Movements, Female, Stepping on and over a trestle

Plate 180 Movements, Female, Stepping on and over a chair..

Plate 182 Movements, Female, Crawling on hands and knees

Plate 183 Movements, Female, Walking on hands and feet

Plate 184 Movements, Female, Walking on hands and feet

Plate 185 Movements, Female, Hopping on left foot

Plate 186 Movements, Male, Hopping on right foot

Plate 191 Movements, Female, Dancing (fancy)

Plate 193 Movements, Female, Dancing (fancy)

Plate 195 Movements, Female, Dancing waltz

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Animal Locomotion Study Collotypes and Publications (cont.)

Plates

Oversize 2 - 3

Plate 197 Movements, Male and Female, Dancing waltz
two models

Plate 198 Movements, Female, Curtseying

Plate 199 Movements, Female, Curtseying fan in right
hand

Plate 200 Movements, Female, Curtseying kissing hand
and turning around

Plate 201 Movements, Female, Taking 12-lb. basket from
head, putting it on the ground

Plate 202 Movements, Female, Dropping and lifting
handkerchief

Plate 204 Movements, Female, Stooping to pick up ball

Plate 207 Movements, Female, Stooping and lifting train

Plate 208 Movements, Female, Dropping a fan and
stooping to lift it

Oversize 3 - 1

Plate 211 Movements, Female, Stooping and lifting
handkerchief; parasol in left hand

Plate 212 Movements, Female, Dropping broom and
lifting bucket of water

Plate 213 Movements, Female, Lifting and emptying
basket

Plate 215 Movements, Female and Child, Placing child
(70) on the ground, child running off

Animal Locomotion Study Collotypes and Publications (cont.)

Plates

Oversize 3 - 1

Plate 216 Movements, Female, Bending to fill water-jar ;
placing jar on head

Plate 217 Movements, Female, Stooping, lifting, and
carrying 30-lb. basket

Plate 218 Movements, Male, Stooping and lifting full
demijohn to shoulder

Plate 219 Movements, Female, Stooping and lifting broom
and sweeping

Plate 220 Movements, Female, Stooping and lifting
handkerchief and turning

Plate 221 Movements, Female, Stooping and lifting 12-lb.
basket to head

Plate 222 Movements, Female, Stooping and lifting water
jar to head and turning

Plate 223 Movements, Female, Stooping and lifting basin,
wiping it, and turning

Plate 225 Movements, Female, Removing water jar from
shoulder to the ground

Plate 226 Movements, Female, Removing water jar from
shoulder to the ground and turning

Plate 227 Movements, Female, Lifting cloth from the
ground, placing it around shoulders, and turning

Plate 228 Movements, Female, Turning and lifting water
jar from the ground

Animal Locomotion Study Collotypes and Publications (cont.)

Plates

Oversize 3 - 1

Plate 229 Movements, Female, Placing basket on the ground and turning

Plate 230 Movements, Female, Lifting 30-lb. basket from ground to head, turning

Plate 231 Movements, Female, Stooping to arrange train and turning

Plate 232 Movements, Female, Stooping to lift train and turning

Plate 233 Movements, Female, Lifting shawl, putting around shoulders, turning

Plate 234 Movements, Female, Lifting and emptying basin of water and turning

Plate 235 Movements, Female, Turning and removing water jar from shoulder to the ground

Plate 237 Movements, Female, Sitting down on chair and opening fan

Plate 238 Movements, Female, Sitting on chair, crossing legs, drinking from teacup

Plate 239 Movements, Female, Two models; one standing, the other sitting, crossing legs

Plate 240 Movements, Female, Sitting and flirting a fan

Plate 241 Movements, Female, Placing chair, sitting and reading

Animal Locomotion Study Collotypes and Publications (cont.)

Plates

Oversize 3 - 1

Plate 242 Movements, Female, Placing chair, sitting and flirting a fan

Plate 243 Movements, Female, Placing chair and sitting, parasol in left hand

Plate 244 Movements, Female, Sitting, crossing legs, filling goblet from pitcher

Plate 245 Movements, Female, Two models, turning around, sitting on the ground

Plate 246 Movements, Female, Placing chair, sitting and flirting a fan

Oversize 3 - 2

Plate 247 Movements, Female, Sitting down, placing feet on chair

Plate 248 Movements, Female, Sitting down on the ground

Plate 249 Movements, Male, Rising from chair

Plate 251 Movements, Female, Kneeling on left knee, basket in 1. hand, and rising

Plate 252 Movements, Female, Kneeling on right knee and scrubbing the floor

Plate 253 Movements, Female, Kneeling elbows on chair, hands clasped

Plate 254 Movements, Female, Kneeling elbows on chair, hands clasped

Plate 255 Movements, Female, Arising from kneeling and turning

Animal Locomotion Study Collotypes and Publications (cont.)

Plates

Oversize 3 - 2

Plate 256 Movements, Female, Lying on the ground and reading

Plate 257 Movements, Male, Lying on the ground and reading

Plate 258 Movements, Male, Arising from the ground and walking off

Plate 259 Movements, Male, Lying on a couch and turning over on side

Plate 260 Movements, Male, Arising from couch and stretching arms

Plate 261 Movements, Female, Getting into hammock.

Plate 262 Movements, Female, Getting out of hammock

Plate 263 Movements, Female, Getting into bed

Plate 264 Movements, Female, Getting out of bed and preparing to kneel

Plate 265 Movements, Female, Getting out of bed and preparing to kneel

Plate 266 Movements, Female, Turning and changing position while on the ground

Plate 267 Movements, Female, Turning and changing position while on the ground

Plate 268 Movements, Female, Arising from the ground

Animal Locomotion Study Collotypes and Publications (cont.)

Plates

Oversize 3 - 2

Plate 269 Movements, Female, Arising from the ground with newspaper in left hand

Plate 270 Movements, Female, Arising from the ground with pamphlet in left hand

Plate 271 Movements, Female, Arising from the ground with a paper in left hand

Plate 272 Movements, Female, Stumbling and falling on the ground

Plate 273 Movements, Male, Base-ball; pitching

Plate 274 Movements, Male, Base-ball; batting

Plate 275 Movements, Male, Base-ball; batting (low ball)

Plate 276 Movements, Male, Base-ball; batting

Plate 277 Movements, Male, Base-ball; batting

Plate 278 Movements, Male, Base-ball; batting

Plate 279 Movements, Male, Base-ball; batting

Plate 280 Movements, Male, Base-ball; catching

Plate 281 Movements, Male, Base-ball; catching and throwing

Plate 282 Movements, Male, Base-ball; catching and throwing

Oversize 3 - 3

Plate 283 Movements, Male, Base-ball; catching and throwing

Animal Locomotion Study Collotypes and Publications (cont.)

Plates

Oversize 3 - 3

Plate 284 Movements, Male, Base-ball; catching and throwing

Plate 285 Movements, Male, Base-ball; catching and throwing

Plate 286 Movements, Male, Base-ball; throwing

Plate 287 Movements, Male, Base-ball; running and picking up ball

Plate 288 Movements, Male, Base-ball; error

Plate 289 Movements, Male, Cricket; round arm bowling

Plate 290 Movements, Male, Cricket; over arm bowling

Plate 291 Movements, Male, Cricket; batting; drive

Plate 292 Movements, Male, Cricket; batting; back cut

Plate 293 Movements, Male, Cricket; batting; back cut

Plate 294 Movements, Male, Lawn tennis; serving

Plate 295 Movements, Female, Lawn tennis

Plate 296 Movements, Female, Lawn tennis

Plate 297 Movements, Female, Lawn tennis

Plate 298 Movements, Female, Lawn tennis

Plate 299 Movements, Female, Playing with a ball

Animal Locomotion Study Collotypes and Publications (cont.)

Plates

Oversize 3 - 3

Plate 300 Movements, Male, Foot-ball; drop kick

Plate 301 Movements, Male, Foot-ball; punt

Plate 302 Movements, Male, Picking up a ball and
throwing it

Plate 303 Movements, Male, Picking up a ball and
throwing it

Plate 304 Movements, Female, Picking up a ball and
throwing it

Plate 305 Movements, Female, Picking up a ball and
throwing it

Plate 306 Movements, Female, Picking up a ball and
throwing it

Plate 307 Movements, Male, Throwing an iron disk

Plate 308 Movements, Male, Throwing the hammer

Plate 309 Movements, Male, Throwing the hammer

Plate 310 Movements, Male, Putting the shot

Plate 311 Movements, Male, Heaving a 75-lb. rock

Plate 312 Movements, Male, Heaving a 75-lb. rock

Plate 313 Movements, Male, Heaving a 20-lb. rock

Plate 314 Movements, Male, Heaving a 20-lb. rock

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- Oversize 3 - 3 Plate 315 Movements, Male, Heaving a 20-lb. rock
- Plate 317 Movements, Male, Heaving a 75-lb. rock
- Plate 318 Movements, Male, Lifting a 75-lb. rock
- Oversize 4 - 1 Plate 319 Movements, Male, Heaving a 75-lb. rock
- Plate 320 Movements, Male, Lifting 50-lb. dumb-bell
- Plate 321 Movements, Male, lifting 50-lb. dumb-bell ; B,
 posing
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Plate 681 Animals and Movements, Wild Animals and Birds, Virginia deer; (no antlers;) buck; walking, startled to a gallop

Plate 682 Animals and Movements, Wild Animals and Birds, Fallow deer; buck; A, trotting; B, galloping

Plate 683 Animals and Movements, Wild Animals and Birds, Virginia deer; (no antlers;) buck; galloping

Plate 684 Animals and Movements, Wild Animals and Birds, Fallow deer; A, buck and doe; B, two does; trotting, galloping

Plate 685 Animals and Movements, Wild Animals and Birds, Fallow deer; buck and doe; trotting

Oversize 7 - 2

Plate 686 Animals and Movements, Wild Animals and Birds, Fallow deer; buck and doe; galloping

Plate 687 Animals and Movements, Wild Animals and Birds, Fallow deer; buck and group of does; galloping

Plate 688 Animals and Movements, Wild Animals and Birds, Fallow deer; buck and group of does; galloping

Plate 689 Animals and Movements, Wild Animals and Birds, Fallow deer; A, B, buck, and group of does; galloping

Animal Locomotion Study Collotypes and Publications (cont.)

Plates

Oversize 7 - 2

Plate 690 Animals and Movements, Wild Animals and Birds, Fallow deer; buck and group of does; various movements

Plate 691 Animals and Movements, Wild Animals and Birds, Fallow deer; doe; galloping; and kid; jumping

Plate 692 Animals and Movements, Wild Animals and Birds, Elk; trotting

Plate 693 Animals and Movements, Wild Animals and Birds, Elk; galloping

Plate 694 Animals and Movements, Wild Animals and Birds, Elk; galloping; irregular

Plate 695 Animals and Movements, Wild Animals and Birds, Elk; galloping; irregular

Plate 696 Animals and Movements, Wild Animals and Birds, Eland; trotting

Plate 697 Animals and Movements, Wild Animals and Birds, Antelope; trotting

Plate 698 Animals and Movements, Wild Animals and Birds, Antelope; galloping

Plate 699 Animals and Movements, Wild Animals and Birds, Buffalo; walking

Plate 700 Animals and Movements, Wild Animals and Birds, Buffalo; galloping

Plate 701 Animals and Movements, Wild Animals and Birds, Gnu; walking

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Animal Locomotion Study Collotypes and Publications (cont.)

Plates

Oversize 7 - 2

Plate 702 Animals and Movements, Wild Animals and Birds, Gnu; bucking and galloping

Plate 704 Animals and Movements, Domestic Animals, Dog; walking; mastiff, Dread

Plate 705 Animals and Movements, Domestic Animals, Dog; trotting; mastiff, Dread

Plate 706 Animals and Movements, Domestic Animals, "Smith", Trotting

Plate 707 Animals and Movements, Domestic Animals, Dog; galloping; mastiff, Dread

Plate 708 Animals and Movements, Domestic Animals, Dog; galloping; brown racing hound, Ike

Plate 709 Animals and Movements, Domestic Animals, Dog; galloping; white racing hound, Maggie

Plate 710 Animals and Movements, Domestic Animals, Dog; galloping; white racing hound, Maggie

Plate 711 Animals and Movements, Domestic Animals, Dogs; two, racing; A, B; racing hounds Ike, Maggie

Plate 712 Animals and Movements, Domestic Animals, Dog; jumping hurdle; mastiff, Dread

Plate 713 Animals and Movements, Domestic Animals, Dog; turning around, etc.; setter, Kate

Plate 714 Animals and Movements, Domestic Animals, Dog; aroused by a torpedo; mastiff, Smith

Animal Locomotion Study Collotypes and Publications (cont.)

Plates

Oversize 7 - 2

Plate 715 Animals and Movements, Domestic Animals, Dogs; three, tugging at a towel Ike, Maggie, etc:

Plate 716 Animals and Movements, Domestic Animals, Cat; walking; change to galloping

Plate 717 Animals and Movements, Domestic Animals, Cat; trotting; change to galloping

Plate 718 Animals and Movements, Domestic Animals, Cat; trotting; change to galloping

Plate 719 Animals and Movements, Domestic Animals, Cat; galloping; change to galloping

Plate 720 Animals and Movements, Domestic Animals, Cat; galloping; change to galloping

Plate 721 Animals and Movements, Wild Animals and Birds, Lion; walking

Plate 722 Animals and Movements, Wild Animals and Birds, Lion; walking

Plate 723 Animals and Movements, Wild Animals and Birds, Lion; walking and turning around

Plate 724 Animals and Movements, Wild Animals and Birds, Lion; walking, turning around

Plate 725 Animals and Movements, Wild Animals and Birds, Lion; walking, turning around

Plate 726 Animals and Movements, Wild Animals and Birds, Lion and lioness; walking

Animal Locomotion Study Collotypes and Publications (cont.)

Plates

Oversize 7 - 2

Plate 727 Animals and Movements, Wild Animals and Birds, Lioness; walking; lion; lying down

Plate 728 Animals and Movements, Wild Animals and Birds, Lioness; walking; lion; lying down

Plate 729 Animals and Movements, Wild Animals and Birds, Tigress; walking

Oversize 8 - 1

Plate 730 Animals and Movements, Wild Animals and Birds, Tigress; turning around

Plate 731 Animals and Movements, Wild Animals and Birds, Jaguar; A, walking; B, turning around

Plate 732 Animals and Movements, Wild Animals and Birds, Elephant; walking

Plate 733 Animals and Movements, Wild Animals and Birds, Elephant; walking

Plate 734 Animals and Movements, Wild Animals and Birds, Elephants; two, walking

Plate 735 Animals and Movements, Wild Animals and Birds, Elephants; two, walking

Plate 736 Animals and Movements, Wild Animals and Birds, Egyptian camel ; racking

Plate 737 Animals and Movements, Wild Animals and Birds, Bactrian camel; walking

Plate 738 Animals and Movements, Wild Animals and Birds, Bactrian camel; racking

Animal Locomotion Study Collotypes and Publications (cont.)

Plates

Oversize 8 - 1

Plate 739 Animals and Movements, Wild Animals and Birds, Bactrian camel; galloping

Plate 740 Animals and Movements, Wild Animals and Birds, Bactrian camel (young), galloping

Plate 741 Animals and Movements, Wild Animals and Birds, Bactrian camel, A, walking; B, racking

Plate 742 Animals and Movements, Wild Animals and Birds, Bactrian camel, A, racking; B, galloping

Plate 743 Animals and Movements, Wild Animals and Birds, Guanaco; galloping

Plate 744 Animals and Movements, Wild Animals and Birds, Raccoon; walking; change to galloping

Plate 745 Animals and Movements, Wild Animals and Birds, Raccoon; walking; and turning around

Plate 746 Animals and Movements, Wild Animals and Birds, Capybara; walking

Plate 747 Animals and Movements, Wild Animals and Birds, Baboon; walking on all-fours

Plate 748 Animals and Movements, Wild Animals and Birds, Baboon; walking on all-fours

Plate 749 Animals and Movements, Wild Animals and Birds, Baboon; climbing a pole

Plate 750 Animals and Movements, Wild Animals and Birds, Sloth; walking suspended on a horizontal pole

Animal Locomotion Study Collotypes and Publications (cont.)

Plates

- Oversize 8 - 1 Plate 751 Animals and Movements, Wild Animals and Birds, Kangaroo; walking on all-fours; change to jumping
- Plate 752 Animals and Movements, Wild Animals and Birds, Kangaroo; jumping
- Plate 753 Animals and Movements, Wild Animals and Birds, Kangaroo; jumping
- Oversize 8 - 1 Plate 754 Animals and Movements, Wild Animals and Birds, Kangaroo; jumping
- Plate 755 Animals and Movements, Wild Animals and Birds, Pigeon; flying
- Plate 756 Animals and Movements, Wild Animals and Birds, Pigeon; flying
- Plate 757 Animals and Movements, Wild Animals and Birds, Pigeon; flying
- Plate 758 Animals and Movements, Wild Animals and Birds, Cockatoo; flying
- Plate 759 Animals and Movements, Wild Animals and Birds, Cockatoo; flying
- Plate 760 Animals and Movements, Wild Animals and Birds, Cockatoo; flying
- Plate 761 Animals and Movements, Wild Animals and Birds, Cockatoo; flying
- Plate 762 Animals and Movements, Wild Animals and Birds, Cockatoo; flying

Animal Locomotion Study Collotypes and Publications (cont.)

Plates

Oversize 8 - 1

Plate 763 Animals and Movements, Wild Animals and Birds, Red-tailed hawk; flying

Plate 764 Animals and Movements, Wild Animals and Birds, Fish hawk; flying

Plate 765 Animals and Movements, Wild Animals and Birds, Vulture; flying

Plate 766 Animals and Movements, Wild Animals and Birds, Vulture; flying

Plate 767 Animals and Movements, Wild Animals and Birds, Vulture; flying

Plate 768 Animals and Movements, Wild Animals and Birds, Vulture; flying

Plate 769 Animals and Movements, Wild Animals and Birds, American eagle; flying

Plate 770 Animals and Movements, Wild Animals and Birds, American eagle; flying near the ground

Plate 771 Animals and Movements, Wild Animals and Birds, American eagle; flying near the ground

Plate 772 Animals and Movements, Wild Animals and Birds, Ostrich; walking

Plate 773 Animals and Movements, Wild Animals and Birds, Ostrich; running

Plate 774 Animals and Movements, Wild Animals and Birds, Adjutant; walking

Animal Locomotion Study Collotypes and Publications (cont.)

Plates

Oversize 8 - 1

Plate 775 Animals and Movements, Wild Animals and Birds, Adjutant; flying run

Plate 776 Animals and Movements, Wild Animals and Birds, Storks; swans, etc., A, B, C

Plate 777 Animals and Movements, Wild Animals and Birds, Storks; etc., A, B, C, D

Plate 778 Animals and Movements, Wild Animals and Birds, Storks; etc., A, B, C

Plate 779 Animals and Movements, Wild Animals and Birds, Storks; swans, etc

Plate 780 Animals and Movements, Wild Animals and Birds, Storks; swans, etc

Plate 781 Animals and Movements, Wild Animals and Birds, Chickens; scared by torpedo

Duplicate Plates

Oversize 9

Plate 1 Movements, Male, Walking

Plate 4 Movements, Male, Walking

Plate 6 Movements, Male, Walking

Plate 7 Movements, Male, Walking

Plate 8 Movements, Male, Walking

Oversize 10

Plate 9 Movements, Male, Walking

Plate 10 Movements, Male, Walking

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Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

- | | |
|-------------|---|
| Oversize 10 | Plate 11 Movements, Male, Walking |
| | Plate 12 Movements, Male, Walking |
| Oversize 11 | Plate 13 Movements, Female, Walking |
| | Plate 15 Movements, Female, Walking |
| | Plate 16 Movements, Female, Walking |
| | Plate 20 Movements, Female, Walking, right elbow bent |
| | Plate 21 Movements, Female, Walking, both elbows bent |
| | Plate 22 Movements, Female, Walking, with high-heeled boots on |
| Oversize 12 | Plate 23 Movements, Female, Walking, right hand at chin, high-heeled shoes on |
| | Plate 24 Movements, Female, Walking, with high-heeled shoes on |
| | Plate 29 Movements, Male, Walking, carrying bucket of water in each hand |
| | Plate 30 Movements, Male, Walking, carrying bucket of water in each hand |
| | Plate 32 Movements, Female, Walking, carrying bucket of water in each hand |
| | Plate 33 Movements, Female, Walking, carrying 14-lb. basket on head, hands raised |

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

- Oversize 12 Plate 34 Movements, Female, Walking, carrying 15-lb. basket on head, hands raised
- Oversize 13 Plate 36 Movements, Female, Walking, carrying child on left arm
- Plate 37 Movements, Female, Walking, left hand holding dress, right hand at face
- Plate 38 Movements, Female, Walking, opening parasol
- Plate 39 Movements, Female, Walking, hands engaged in knitting
- Plate 42 Movements, Female, Walking, pouring water from pitcher
- Plate 43 Movements, Female, Walking, sprinkling water from basin, turning around
- Oversize 14 Plate 44 Movements, Male, Walking, taking off hat
- Plate 45 Movements, Female, Walking, two models meeting, and partly turning
- Plate 46 Movements, Female, Walking, flirting a fan, and turning around
- Oversize 15 Plate 47 Movements, Female, Walking and turning around
- Plate 48 Movements, Female, Walking and turning around bouquet in both hands
- Plate 51 Movements, Female, Walking turning around, using sprinkling pot

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

- Oversize 15 Plate 52 Movements, Female, Walking carrying child, turning around; another child (70) holding on to dress of 93
- Plate 53 Movements, Female, Walking scattering flowers and turning around
- Oversize 16 Plate 54 Movements, Female, Walking two models (one flirting a fan), arm in arm, turning around
- Plate 55 Movements, Female, Walking turning around, action of aversion
- Plate 58 Movements, Female, Walking turning around, sweeping the floor
- Plate 59 Movements, Male, Starting for a run (shoes)
- Plate 61 Movements, Male, Running full speed (imperfect action, shoes)
- Plate 63 Movements, Male, Running full speed
- Plate 66 Movements, Male, Running
- Oversize 17 Plate 68 Movements, Male, Running
- Plate 69 Movements, Male, Running two models
- Plate 73 Movements, Female, Turning around in surprise and running away
- Plate 75 Movements, Male, Ascending incline
- Plate 77 Movements, Female, Ascending incline

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

Oversize 18

Plate 78 Movements, Female, Ascending incline, flirting a fan

Plate 79 Movements, Female, Ascending incline

Plate 81 Movements, Female, Ascending incline, bucket of water in each hand

Plate 83 Movements, Female, Ascending incline, bucket of water in right hand

Plate 84 Movements, Female, Ascending incline, bucket of water in right hand

Plate 87 Movements, Female, Ascending incline, bucket water each hand (shoes)

Plate 89 Movements, Male, Ascending stairs

Plate 90 Movements, Male, Ascending stairs

Oversize 19

Plate 91 Movements, Male, Ascending stairs

Plate 92 Movements, Female, Ascending stairs

Plate 93 Movements, Female, Ascending stairs

Plate 94 Movements, Female, Ascending stairs looking around; basin in hands

Plate 96 Movements, Female, Ascending stairs looking round, waving handkerchief

Plate 99 Movements, Female, Turning and ascending stairs

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

- | | |
|-------------|---|
| Oversize 19 | Plate 101 Movements, Female, Turning and ascending stairs, waving hand |
| Oversize 20 | Plate 107 Movements, Female, Turning to ascend stairs, bucket of water and broom in hands |
| | Plate 109 Movements, Male, Ascending step-ladder |
| | Plate 130 Movements, Female, Descending stairs |
| | Plate 140 Movements, Female, Descending stairs looking around and waving fan |
| | Plate 146 Movements, Female, Descending stairs turning water jar on left shoulder |
| | Plate 147 Movements, Female, Descending stairs turning water jar on right shoulder |
| | Plate 148 Movements, Female, Descending stairs turning carrying bucket of water and broom |
| | Plate 149 Movements, Female, Descending stairs stooping to lift a pitcher |
| | Plate 150 Movements, Female, Descending stairs stooping lifting pitcher, turning |
| | Plate 151 Movements, Male, Descending step-ladder, turning around, rock in hands |
| | Plate 152 Movements, Male, Jumping; running straight high jump (shoes) |
| Oversize 21 | Plate 154 Movements, Male, Jumping; running straight high jump |

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

Oversize 21

Plate 156 Movements, Female, Jumping; running straight high jump

Plate 157 Movements, Male, Jumping; running twist high jump (shoes)

Plate 158 Movements, Male, Jumping; running twist high jump (shoes)

Plate 159 Movements, Male, Jumping; running broad jump (shoes)

Plate 165 Movements, Male, Jumping; pole vaulting

Plate 166 Movements, Male, Jumping; over man's back (leap-frog)

Plate 168 Movements, Male, Jumping; over boy's back (leap-frog)

Plate 170 Movements, Female, Jumping from stone to stone across a brook

Plate 171 Movements, Female, Stepping up on a trestle; jumping down, turning

Plate 175 Movements, Female, Crossing brook on step-stones with fishing-pole and can

Plate 178 Movements, Female, Stepping on and over a trestle

Plate 180 Movements, Female, Stepping on and over a chair..

Oversize 22

Plate 183 Movements, Female, Walking on hands and feet

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Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

Oversize 22

Plate 184 Movements, Female, Walking on hands and feet

Plate 185 Movements, Female, Hopping on left foot

Plate 186 Movements, Male, Hopping on right foot

Plate 195 Movements, Female, Dancing waltz

Plate 197 Movements, Male and Female, Dancing waltz
two models

Plate 198 Movements, Female, Curtseying

Plate 199 Movements, Female, Curtseying fan in right
hand

Plate 200 Movements, Female, Curtseying kissing hand
and turning around

Plate 201 Movements, Female, Taking 12-lb. basket from
head, putting it on the ground

Plate 202 Movements, Female, Dropping and lifting
handkerchief

Oversize 23

Plate 204 Movements, Female, Stooping to pick up ball

Plate 207 Movements, Female, Stooping and lifting train

Plate 208 Movements, Female, Dropping a fan and
stooping to lift it

Plate 211 Movements, Female, Stooping and lifting
handkerchief; parasol in left hand

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

- | | |
|-------------|--|
| Oversize 23 | Plate 213 Movements, Female, Lifting and emptying basket |
| Oversize 24 | Plate 215 Movements, Female and Child, Plate 215 Movements, Female, Placing child (70) on the ground, child running off |
| Oversize 25 | Plate 217 Movements, Female, Stooping, lifting, and carrying 30-lb. basket

Plate 218 Movements, Male, Stooping and lifting full demijohn to shoulder

Plate 221 Movements, Female, Stooping and lifting 12-lb. basket to head

Plate 222 Movements, Female, Stooping and lifting water jar to head and turning

Plate 223 Movements, Female, Stooping and lifting basin, wiping it, and turning

Plate 225 Movements, Female, Removing water jar from shoulder to the ground

Plate 226 Movements, Female, Removing water jar from shoulder to the ground and turning

Plate 227 Movements, Female, Lifting cloth from the ground, placing it around shoulders, and turning

Plate 228 Movements, Female, Turning and lifting water jar from the ground |
| Oversize 26 | Plate 229 Movements, Female, Placing basket on the ground and turning |

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

Oversize 26

Plate 230 Movements, Female, Lifting 30-lb. basket from ground to head, turning

Plate 232 Movements, Female, Stooping to lift train and turning

Plate 233 Movements, Female, Lifting shawl, putting around shoulders, turning

Plate 234 Movements, Female, Lifting and emptying basin of water and turning

Oversize 27

Plate 237 Movements, Female, Sitting down on chair and opening fan

Plate 239 Movements, Female, Two models; one standing, the other sitting, crossing legs

Plate 241 Movements, Female, Placing chair, sitting and reading

Plate 244 Movements, Female, Sitting, crossing legs, filling goblet from pitcher

Plate 247 Movements, Female, Sitting down, placing feet on chair

Plate 248 Movements, Female, Sitting down on the ground

Plate 249 Movements, Male, Rising from chair

Plate 251 Movements, Female, Kneeling on left knee, basket in 1. hand, and rising

Plate 252 Movements, Female, Kneeling on right knee and scrubbing the floor

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

- | | |
|-------------|--|
| Oversize 27 | Plate 253 Movements, Female, Kneeling elbows on chair, hands clasped |
| | Plate 256 Movements, Female, Lying on the ground and reading |
| | Plate 257 Movements, Male, Lying on the ground and reading |
| | Plate 258 Movements, Male, Arising from the ground and walking off |
| Oversize 28 | Plate 259 Movements, Male, Lying on a couch and turning over on side |
| | Plate 260 Movements, Male, Arising from couch and stretching arms |
| Oversize 29 | Plate 261 Movements, Female, Getting into hammock. |
| | Plate 262 Movements, Female, Getting out of hammock |
| | Plate 263 Movements, Female, Getting into bed |
| | Plate 264 Movements, Female, Getting out of bed and preparing to kneel |
| | Plate 265 Movements, Female, Getting out of bed and preparing to kneel |
| | Plate 266 Movements, Female, Turning and changing position while on the ground |
| | Plate 268 Movements, Female, Arising from the ground |

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

- Oversize 29 Plate 269 Movements, Female, Arising from the ground
with newspaper in left hand
- Oversize 30 Plate 270 Movements, Female, Arising from the ground
with pamphlet in left hand
- Plate 271 Movements, Female, Arising from the ground
with a paper in left hand
- Plate 272 Movements, Female, Stumbling and falling on
the ground
- Plate 273 Movements, Male, Base-ball; pitching
- Plate 274 Movements, Male, Base-ball; batting
- Plate 275 Movements, Male, Base-ball; batting (low ball)
- Plate 276 Movements, Male, Base-ball; batting
- Plate 277 Movements, Male, Base-ball; batting
- Plate 278 Movements, Male, Base-ball; batting
- Plate 279 Movements, Male, Base-ball; batting
- Plate 280 Movements, Male, Base-ball; catching
- Plate 282 Movements, Male, Base-ball; catching and
throwing
- Oversize 31 Plate 284 Movements, Male, Base-ball; catching and
throwing
- Plate 286 Movements, Male, Base-ball; throwing

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

Oversize 31

Plate 287 Movements, Male, Base-ball; running and picking up ball

Plate 288 Movements, Male, Base-ball; error

Plate 289 Movements, Male, Cricket; round arm bowling

Plate 290 Movements, Male, Cricket; over arm bowling

Plate 291 Movements, Male, Cricket; batting; drive

Plate 292 Movements, Male, Cricket; batting; back cut

Plate 293 Movements, Male, Cricket; batting; back cut

Plate 294 Movements, Male, Lawn tennis; serving

Plate 295 Movements, Female, Lawn tennis

Plate 296 Movements, Female, Lawn tennis

Plate 297 Movements, Female, Lawn tennis

Oversize 32

Plate 298 Movements, Female, Lawn tennis

Plate 299 Movements, Female, Playing with a ball

Plate 300 Movements, Male, Foot-ball; drop kick

Plate 301 Movements, Male, Foot-ball; punt

Plate 302 Movements, Male, Picking up a ball and throwing it

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

- | | |
|-------------|---|
| Oversize 32 | Plate 303 Movements, Male, Picking up a ball and throwing it |
| | Plate 304 Movements, Female, Picking up a ball and throwing it |
| | Plate 305 Movements, Female, Picking up a ball and throwing it |
| | Plate 307 Movements, Male, Throwing an iron disk |
| Oversize 33 | Plate 308 Movements, Male, Throwing the hammer |
| | Plate 309 Movements, Male, Throwing the hammer |
| | Plate 310 Movements, Male, Putting the shot |
| | Plate 312 Movements, Male, Heaving a 75-lb. rock |
| | Plate 313 Movements, Male, Heaving a 20-lb. rock |
| | Plate 314 Movements, Male, Heaving a 20-lb. rock |
| | Plate 315 Movements, Male, Heaving a 20-lb. rock |
| Oversize 34 | Plate 318 Movements, Male, Lifting a 75-lb. rock |
| | Plate 319 Movements, Male, Heaving a 75-lb. rock |
| | Plate 320 Movements, Male, Lifting 50-lb. dumb-bell |
| | Plate 321 Movements, Male, lifting 50-lb. dumb-bell ; B, posing |

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Duplicate Plates

- | | |
|-------------|---|
| Oversize 34 | Plate 322 Movements, Male, Lifting and letting down two 50-lb. dumb-bells |
| | Plate 324 Movements, Male, Curling 50-lb. dumb-bell, model 3/4 length |
| Oversize 35 | Plate 325 Movements, Male, Lifting and holding two 50-lb. dumb-bells |
| | Plate 326 Movements, Male, Lifting 50-lb. dumb-bell at arm's length |
| | Plate 327 Movements, Male, Rowing |
| | Plate 329 Movements, Male, Boxing; (shoes) |
| | Plate 336 Movements, Male, Boxing; open hand (shoes) |
| | Plate 338 Movements, Male, Boxing; open hand (shoes) |
| | Plate 339 Movements, Male, Boxing; open hand (shoes) |
| | Plate 340 Movements, Male, Boxing; open hand (shoes) |
| Oversize 36 | Plate 342 Movements, Male, Boxing; open hand (shoes) |
| | Plate 343 Movements, Male, Striking a blow (left hand) |
| | Plate 344 Movements, Male, Striking a blow (right hand) |
| | Plate 346 Movements, Male, Wrestling; lock |
| | Plate 350 Movements, Male, Fencing |
| | Plate 351 Movements, Male, "Fix" and "unfix bayonets" |

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Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

- | | |
|-------------|--|
| Oversize 36 | Plate 352 Movements, Male, "Shoulder," "order," and "carry arms" |
| | Plate 354 Movements, Male, "Carry arms," "parade rest," and "trail arms" |
| Oversize 37 | Plate 355 Movements, Male, On guard, walking and turning around |
| | Plate 356 Movements, Male, Kneeling, firing and rising |
| | Plate 357 Movements, Male, Lying prone and firing |
| Oversize 38 | Plate 358 Movements, Male, Lying on back and firing |
| | Plate 359 Movements, Male, Charging bayonet |
| | Plate 361 Movements, Male, Throwing a spear |
| | Plate 363 Movements, Male, Running somersault |
| | Plate 364 Movements, Male, Hand-spring over man's back |
| | Plate 365 Movements, Male, Head-spring, a flying pigeon interfering |
| | Plate 366 Movements, Male, Running, hitch and kick |
| | Plate 372 Movements, Male, Acrobat, horizontal "press up" |
| | Plate 375 Movements, Male, Blacksmiths, two models, hammering on anvil |
| Oversize 39 | Plate 376 Movements, Male, Blacksmith, hammering on anvil, two hands |

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

- | | |
|-------------|--|
| Oversize 39 | Plate 377 Movements, Male, Blacksmiths, two models, hammering on anvil |
| | Plate 378 Movements, Male, Blacksmith, hammering on anvil, two hands |
| | Plate 379 Movements, Male, Carpenter, planing a board |
| | Plate 380 Movements, Male, Carpenter, sawing a board |
| | Plate 382 Movements, Male, Lifting a log on end |
| | Plate 383 Movements, Male, Lifting a log on shoulder |
| | Plate 385 Movements, Male, Farmer, using a pick |
| Oversize 40 | Plate 387 Movements, Male, Farmer, using a long-handled shovel |
| | Plate 388 Movements, Male, Farmer, using spade |
| | Plate 389 Movements, Male, Farmer, scattering seed |
| Oversize 41 | Plate 391 Movements, Male, Farmer, mowing grass |
| | Plate 392 Movements, Male, Dragging a garden roller |
| | Plate 393 Movements, Male, Pushing a garden roller |
| | Plate 394 Movements, Male, Turning a crank handle |
| | Plate 395 Movements, Male, Turning a crank handle |
| | Plate 396 Movements, Male, Pounding with a mallet |

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Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

- | | |
|-------------|--|
| Oversize 41 | Plate 398 Movements, Male, Lifting bucket of water to empty it |
| | Plate 399 Movements, Male, Emptying bucket of water |
| | Plate 400 Movements, Male, Emptying bucket of water |
| | Plate 401 Movements, Male, Emptying bucket of water |
| | Plate 405 Movements, Male, Carrying hod of bricks up a ladder |
| Oversize 42 | Plate 406 Movements, Female, Two models, 8 pouring bucket of water over 1 |
| | Plate 410 Movements, Female, Stepping out of bath-tub, sitting down, wiping feet |
| | Plate 412 Movements, Female, Washing, wiping face, and turning |
| | Plate 413 Movements, Female, Pouring water in basin and washing face |
| | Plate 414 Movements, Female, Wiping body with towel |
| | Plate 415 Movements, Female, Toilet; preparing to put on clothing |
| | Plate 416 Movements, Female, Toilet; putting on dress |
| | Plate 418 Movements, Female, Toilet; sitting and putting on stockings |
| Oversize 43 | Plate 419 Movements, Female, Toilet; stooping, throwing wrap around shoulders |

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

Oversize 43

Plate 420 Movements, Female, Toilet; rising from chair,
and putting on clothing

Plate 421 Movements, Female, Toilet; throwing
handkerchief around shoulders

Plate 422 Movements, Female, Toilet; putting on shoes,
and rising from chair

Plate 423 Movements, Female, Toilet; putting on boots,
and rising from chair

Plate 424 Movements, Female, Toilet; rising from chair,
and putting on shawl

Plate 426 Movements, Female, Toilet; brushing her hair
and walking off

Plate 428 Movements, Female, Toilet; two models, 1
disrobing 8

Plate 431 Movements, Female, Toilet; taking off clothing

Plate 433 Movements, Female, Wringing clothes

Oversize 44

Plate 434 Movements, Female, Hanging clothes on line

Plate 435 Movements, Female, Ironing clothes

Plate 439 Movements, Female, Spreading a rug on the
floor

Plate 441 Movements, Female, Carrying vase and placing
it on table

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

Oversize 44

Plate 442 Movements, Female, Stooping, and rolling a stone on the ground

Plate 443 Movements, Female, Drinking from a goblet while standing

Plate 445 Movements, Female, Two models, 8 drinking from water jar on the shoulder of 1

Plate 446 Movements, Female, Filling pitcher on the ground from water jar

Plate 447 Movements, Female, Two models, 9 taking water jar from shoulder of 10

Plate 448 Movements, Female, Two models, 11 descending stairs with goblet meets 10 with bouquet

Plate 451 Movements, Female, Two models, 8 brings cup of tea, 1 takes cup and drinks

Plate 453 Movements, Female, Two models, 8 kneels, drinks from water jar in hands of 1, and both walk off

Plate 454 Movements, Female, Taking 12-lb. basket from head and placing it on the ground

Plate 457 Movements, Female, Stepping on chair, and reaching up

Plate 458 Movements, Female, Lifting handfuls of hay, turning, throwing it down

Oversize 45

Plate 459 Movements, Female, Stepping on chair, reaching up, and descending

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

Oversize 45

Plate 462 Movements, Female, Pouring libation on ground, drinking from goblet

Plate 463 Movements, Female, Reaching up, stooping, and turning around

Plate 467 Movements, Male, Child, walking

Plate 468 Movements, Male, Child, walking

Plate 469 Movements, Female, Child, running

Plate 470 Movements, Male, Child, 70 N, running after a man

Plate 474 Movements, Female, Child, walking up-stairs, kneeling, reaching for vase

Plate 475 Movements, Female, Child, getting up on chair

Plate 476 Movements, Female, Child, sitting down on the ground

Plate 477 Movements, Female, Child, stooping, lifting a goblet, and drinking

Plate 478 Movements, Female, Child, sprinkling water over some flowers

Plate 479 Movements, Male, Child, getting up from the ground

Oversize 46

Plate 480 Movements, Female, Child, walking and crawling up-stairs

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

Oversize 46

Plate 481 Movements, Female, Child, lifting a doll, turning, and walking off

Plate 483 Movements, Female, A, lifting basket; B, running, waving handkerchief

Plate 484 Movements, Female, A, sweeping; B, dusting a room

Plate 485 Movements, Female, Two models; A 10, standing and filling a goblet; B 11, drinking while lying on the ground

Plate 486 Movements, Male, A, lawn tennis; B, ascending a step; C, descending a step ; D, ascending a ladder

Plate 487 Movements, Male, A, ascending a step; B, lifting a handkerchief from the ground ; C, walking ; D, running

Oversize 47

Plate 488 Movements, Male, A, lawn tennis ; B, dumb-bells ; C, walking on hands; D, ascending stairs

Plate 489 Movements, Male, A, ascending incline; B, ascending incline with 50-lb. dumb-bell; C, descending incline ; D, descending incline with 50-lb. dumb-bell

Plate 490 Movements, Male, A, sitting down; B, sitting down; C, sprinkling water; D, stooping for cup and drinking

Plate 491 Movements, Male, A, hammering at anvil; B, hammering at anvil; C, using hatchet ; D, sawing a board

Plate 492 Movements, Male, A 103, rowing; B 96, rowing

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

- Oversize 47 Plate 494 Movements, Female, Miscellaneous phases of the toilet
- Plate 495 Movements, Female, Miscellaneous phases of the toilet
- Plate 496 Movements, Female, Miscellaneous phases of the toilet
- Plate 498 Movements, Female, Miscellaneous phases of the toilet
- Oversize 48 Plate 500 Movements, Female, Various movements with water jar
- Plate 502 Movements, Female, Miscellaneous,—stooping, kneeling, etc
- Plate 503 Movements, Female, Miscellaneous,—stooping, etc
- Plate 505 Movements, Female, Bricklaying
- Plate 507 Movements, Male, Carpentering
- Plate 508 Movements, Male, Shoeing a horse
- Plate 509 Movements, Male, Shoeing a horse
- Plate 510 Movements, Male, Contortions on the ground
- Oversize 49 Plate 514 Movements, Female, Feeding a dog
- Plate 515 Movements, Female, Ascending and descending stairs, etc

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

- Oversize 49 Plate 517 Movements, Female, Miscellaneous movements with a water jar
- Oversize 50 Plate 519 Movements, Male, A, throwing disk; B, ascending step; C, walking
- Plate 520 Movements, Male, A, 98 and 100, wrestling; B, 98 and 100, wrestling; C, 99 and 101, wrestling; D, 99 and 101, sparring without gloves
- Plate 521 Movements, Male, A, walking; B, ascending step; C, throwing disk; D, using shovel; E, using pick; F, using pick
- Plate 522 Movements, Male, A 97, jumping; B 98, hand-spring; C 98, somersault; D 99, somersault; E 99, spring over man's back
- Plate 523 Movements, Male, A, striking a blow ; B, throwing disk ; C, heaving a 75-lb. stone; D, throwing a ball; E, throwing disk; F, heaving 75-lb. stone
- Plate 525 Movements, Female, A, descending step; B, ascending step; C, descending step; D, ascending step; E, waving handkerchief
- Plate 526 Movements, Female, A, lifting ball; B, emptying bucket of water; C, kicking above her head; D, striking with a stick; E, stumbling; F, lifting 50-lb. dumb-bell
- Plate 527 Movements, Female, A, B, C ; 1, spanking child
104
- Plate 530 Movements, Male, Various poses
- Plate 531 Movements, Female, Various poses

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

- Oversize 50 Plate 532 Movements, Movement of the hand; drawing a circle
- Oversize 51 Plate 533 Movements, Movement of the hand; clasping hands
- Plate 534 Movements, Movement of the hand; lifting a ball
- Plate 535 Movements, Movement of the hand; beating time
- Plate 536 Movements, Movement of the hand; hands changing pencil
- Plate 538 Movements, Male, Double amputation of thighs; boy; A, moving forward; B, getting on chair; C, down from chair
- Plate 539 Movements, Male, Infantile paralysis; child, walking on hands and feet
- Plate 540 Movements, Male, A, bow-legs; boy; B, spinal caries; girl, walking
- Plate 541 Movements, Female, Multiple cerebro-spinal sclerosis (choreic); walking
- Plate 542 Movements, Female, Multiple cerebro-spinal sclerosis walking
- Plate 543 Movements, Female, Spastic gait (hysterical); walking
- Plate 544 Movements, Female, Artificially-induced convulsions ; A, B, C, while lying

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

Oversize 51

Plate 545 Movements, Female, Artificially -induced convulsions ; A, B, while sitting

Plate 546 Movements, Male, Locomotor ataxia; walking

Plate 548 Movements, Male, Lateral sclerosis ; A, B, walking

Plate 549 Movements, Male, Epilepsy; walking

Plate 550 Movements, Male, Locomotor ataxia; walking; A, arms down; B, arms up

Plate 553 Movements, Male, After traumatism of head; walking

Plate 555 Movements, Male, Muscular atrophy of legs; adult; A, B, walking

Plate 556 Movements, Male, Local chorea; A, B, while lying

Plate 557 Movements, Male, Local chorea; A, B, C, while standing

Oversize 52

Plate 559 Movements, Male, Disseminated sclerosis; walking with cane

Plate 561 Movements, Male, Hydrocephalus; walking

Plate 562 Movements, Male, Lateral curvature of spine; walking

Plate 564 Animals and Movements, Horses, Hauling; broken log chain; dark-gray Bel. horse Dusel

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

Oversize 52

Plate 565 Animals and Movements, Horses, Hauling; dark-gray Bel. horse Dusel

Plate 567 Animals and Movements, Horses, Hauling; dark-gray Bel. horse Dusel, Billy

Plate 569 Animals and Movements, Horses, Hauling; dark-gray Bel. horse Dusel, Hansel

Plate 571 Animals and Movements, Horses, Hauling; light-gray mare, Johnson

Plate 572 Animals and Movements, Horses, Hauling; head being pulled; light-gray mare, Johnson

Plate 573 Animals and Movements, Horses, Hauling; man pulling at head; light-gray mare, Johnson

Plate 574 Animals and Movements, Horses, Walking; free; dark-gray Belgian horse, Hansel

Plate 575 Animals and Movements, Horses, Walking; free; dark-gray Belgian horse, Hansel

Oversize 53

Plate 578 Animals and Movements, Horses, Walking; bareback; dark-gray Belgian horse, Dusel

Plate 580 Animals and Movements, Horses, Walking; saddle; thoroughbred bay mare, Annie G

Plate 581 Animals and Movements, Horses, Walking; bareback; rider, 43, nude; light-gray horse, Smith

Plate 582 Animals and Movements, Horses, Walking; saddle; rider, 43, nude; light-gray horse, Smith

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

Oversize 53

Plate 583 Animals and Movements, Horses, Walking;
saddle; female rider, nude; gray horse, Tom

Plate 585 Animals and Movements, Horses, Walking;
sulky; light-gray mare, Katydid

Plate 586 Animals and Movements, Horses, Walking;
sulky; light-gray mare, Katydid

Plate 587 Animals and Movements, Horses, Walking;
sulky; sorrel mare, Nellie Rose

Plate 588 Animals and Movements, Horses, Walking;
sulky; bay horse, Reuben

Plate 591 Animals and Movements, Horses, Racking
(pacing); saddle; brown horse, Pronto

Plate 594 Animals and Movements, Horses, Racking
(pacing); sulky; brown horse, Pronto

Plate 596 Animals and Movements, Horses, Trotting; free;
light-gray horse, Eagle

Plate 597 Animals and Movements, Horses, Trotting;
bareback; dark-gray Belgian horse, Hansel

Oversize 54

Plate 598 Animals and Movements, Horses, Trotting;
saddle; bay horse, Daisy

Plate 599 Animals and Movements, Horses, Trotting;
bareback; dark-gray Belgian horse, Dusel

Plate 600 Animals and Movements, Horses, Trotting;
bareback; dark-gray Belgian horse, Dusel

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

- | | |
|-------------|---|
| Oversize 54 | Plate 601 Animals and Movements, Horses, Trotting; saddle; brown mare, Beauty |
| | Plate 602 Animals and Movements, Horses, Trotting; bareback; rider, 43, nude; light-gray horse, Smith |
| | Plate 603 Animals and Movements, Horses, Trotting; saddle; rider, 43, nude; light-gray horse Smith |
| | Plate 605 Animals and Movements, Horses, Trotting; sulky; bay horse, Reuben |
| | Plate 606 Animals and Movements, Horses, Trotting; sulky; bay horse, Reuben |
| | Plate 607 Animals and Movements, Horses, Trotting; sulky; by mare, Lizzie M |
| Oversize 55 | Plate 608 Animals and Movements, Horses, Trotting; sulky; sorrel mare, Flode Holden |
| | Plate 609 Animals and Movements, Horses, Trotting; sulky; bay mare, Lizzie M |
| | Plate 611 Animals and Movements, Horses, Trotting; sulky; gray mare, Katydid |
| | Plate 612 Animals and Movements, Horses, Trotting; sulky; bay horse, Dercum |
| | Plate 615 Animals and Movements, Horses, Canter; bareback; dark-gray Belgian horse, Hansel |
| | Plate 618 Animals and Movements, Horses, Canter; saddle; brown horse, Middleton |

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

Oversize 55

Plate 619 Animals and Movements, Horses, Canter;
saddle; brown horse, Middleton

Plate 620 Animals and Movements, Horses, Canter;
thoroughbred bay mare, Annie G

Plate 621 Animals and Movements, Horses, Canter;
thoroughbred bay mare, Annie G

Plate 622 Animals and Movements, Horses, Canter;
saddle; 44 rider, 43, nude; gray horse, Smith

Plate 623 Animals and Movements, Horses, Canter;
bareback; rider, 43, nude; gray horse, Smith

Plate 624 Animals and Movements, Horses, Gallop;
saddle; bay horse, Daisy

Plate 625 Animals and Movements, Horses, Gallop;
thoroughbred bay horse, Bouquet

Plate 626 Animals and Movements, Horses, Gallop,
thoroughbred bay mare, Annie G.

Plate 627 Animals and Movements, Horses, Gallop;
thoroughbred bay mare, Annie G.

Plate 629 Animals and Movements, Horses, Gallop;
bareback; Belgian draught horse, Hansel

Plate 631 Animals and Movements, Horses, Gallop;
saddle; thoroughbred bay horse, Bouquet

Plate 632 Animals and Movements, Horses, Gallop;
saddle; thoroughbred bay horse, Bouquet

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Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

Oversize 55

Plate 633 Animals and Movements, Horses, Gallop;
saddle; thoroughbred bay horse, Bouquet

Plate 634 Animals and Movements, Horses, Gallop;
saddle; gray horse, Dan

Plate 636 Animals and Movements, Horses, Jumping a
hurdle; saddle; preparing for the leap; bay horse, Daisy

Plate 637 Animals and Movements, Horses, Jumping a
hurdle; saddle; clearing, landing and recovering; bay horse
Daisy"

Plate 639 Animals and Movements, Horses, Jumping a
hurdle; saddle; bay horse, Daisy

Plate 640 Animals and Movements, Horses, Jumping a
hurdle; saddle; bay horse, Daisy

Plate 641 Animals and Movements, Horses, Jumping a
hurdle; saddle; knocking over hurdle and landing; rider
105 ; gray mare Pandora

Plate 642 Animals and Movements, Horses, Jumping a
hurdle; saddle; rider, 105, nude; gray mare; Pandora

Oversize 56

Plate 645 Animals and Movements, Horses, Jumping a
hurdle; saddle; clearing and landing; rider 105; gray mare;
Pandora

Plate 646 Animals and Movements, Horses, Jumping a
hurdle; saddle; rider, 105, nude; gray mare, Pandora

Plate 647 Animals and Movements, Horses, Jumping a
hurdle; bareback; rider, 105, nude; gray mare, Pandora

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

Oversize 56

Plate 649 Animals and Movements, Horses, A, Hornet, rocking; B, Eagle, rolling barrel, etc

Plate 650 Animals and Movements, Horses, Walking with a bucket in mouth; light-gray horse, Eagle

Plate 652 Animals and Movements, Horses, A, B, C, D, E, horses rearing, etc"

Plate 653 Animals and Movements, Horses, Walking; saddle; lame, right front foot; horse, Buckskin

Plate 658 Animals and Movements, Domestic Animals, Mule; A, kicking; B, kicking, Ruth

Plate 667 Animals and Movements, Domestic Animals, Ass; waking; saddle; a boy riding, Zoo

Plate 671 Animals and Movements, Domestic Animals, Ox ; walking

Plate 675 Animals and Movements, Domestic Animals, Sow; trotting

Plate 679 Animals and Movements, Domestic Animals, Goat; galloping

Plate 681 Animals and Movements, Wild Animals and Birds, Virginia deer; (no antlers;) buck; walking, startled to a gallop

Plate 682 Animals and Movements, Wild Animals and Birds, Fallow deer; buck; A, trotting; B, galloping

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

Oversize 56

Plate 684 Animals and Movements, Wild Animals and Birds, Fallow deer; A, buck and doe; B, two does; trotting, galloping

Plate 685 Animals and Movements, Wild Animals and Birds, Fallow deer; buck and doe; trotting

Plate 687 Animals and Movements, Wild Animals and Birds, Fallow deer; buck and group of does; galloping

Plate 688 Animals and Movements, Wild Animals and Birds, Fallow deer; buck and group of does; galloping

Plate 689 Animals and Movements, Wild Animals and Birds, Fallow deer; A, B, buck, and group of does; galloping

Plate 690 Animals and Movements, Wild Animals and Birds, Fallow deer; buck and group of does; various movements

Plate 694 Animals and Movements, Wild Animals and Birds, Elk; galloping; irregular

Plate 695 Animals and Movements, Wild Animals and Birds, Elk; galloping; irregular

Plate 696 Animals and Movements, Wild Animals and Birds, Eland; trotting

Plate 698 Animals and Movements, Wild Animals and Birds, Antelope; galloping

Plate 699 Animals and Movements, Wild Animals and Birds, Buffalo; walking

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

- Oversize 56 Plate 700 Animals and Movements, Wild Animals and Birds, Buffalo; galloping
- Plate 701 Animals and Movements, Wild Animals and Birds, Gnu; walking
- Oversize 57 Plate 702 Animals and Movements, Wild Animals and Birds, Gnu; bucking and galloping
- Plate 704 Animals and Movements, Domestic Animals, Dog; walking; mastiff, Dread
- Plate 705 Animals and Movements, Domestic Animals, Dog; trotting; mastiff, Dread
- Plate 707 Animals and Movements, Domestic Animals, Dog; galloping; mastiff, Dread
- Plate 711 Animals and Movements, Domestic Animals, Dogs; two, racing; A, B; racing hounds Ike, Maggie
- Plate 712 Animals and Movements, Domestic Animals, Dog; jumping hurdle; mastiff, Dread
- Plate 714 Animals and Movements, Domestic Animals, Dog; aroused by a torpedo; mastiff, Smith
- Plate 715 Animals and Movements, Domestic Animals, Dogs; three, tugging at a towel Ike, Maggie, etc:
- Plate 717 Animals and Movements, Domestic Animals, Cat; trotting; change to galloping
- Plate 719 Animals and Movements, Domestic Animals, Cat; galloping; change to galloping

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

Oversize 57

Plate 721 Animals and Movements, Wild Animals and Birds, Lion; walking

Plate 722 Animals and Movements, Wild Animals and Birds, Lion; walking

Plate 724 Animals and Movements, Wild Animals and Birds, Lion; walking, turning around

Plate 725 Animals and Movements, Wild Animals and Birds, Lion; walking, turning around

Plate 727 Animals and Movements, Wild Animals and Birds, Lioness; walking; lion; lying down

Oversize 58

Plate 728 Animals and Movements, Wild Animals and Birds, Lioness; walking; lion; lying down

Plate 729 Animals and Movements, Wild Animals and Birds, Tigress; walking

Plate 730 Animals and Movements, Wild Animals and Birds, Tigress; turning around

Plate 731 Animals and Movements, Wild Animals and Birds, Jaguar; A, walking; B, turning around

Plate 732 Animals and Movements, Wild Animals and Birds, Elephant; walking

Plate 733 Animals and Movements, Wild Animals and Birds, Elephant; walking

Plate 734 Animals and Movements, Wild Animals and Birds, Elephants; two, walking

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

Oversize 58

Plate 738 Animals and Movements, Wild Animals and Birds, Bactrian camel; racking

Plate 739 Animals and Movements, Wild Animals and Birds, Bactrian camel; galloping

Plate 741 Animals and Movements, Wild Animals and Birds, Bactrian camel, A, walking; B, racking

Plate 742 Animals and Movements, Wild Animals and Birds, Bactrian camel, A, racking; B, galloping

Plate 743 Animals and Movements, Wild Animals and Birds, Guanaco; galloping

Plate 744 Animals and Movements, Wild Animals and Birds, Raccoon; walking; change to galloping

Plate 746 Animals and Movements, Wild Animals and Birds, Capybara; walking

Plate 747 Animals and Movements, Wild Animals and Birds, Baboon; walking on all-fours

Plate 748 Animals and Movements, Wild Animals and Birds, Baboon; walking on all-fours

Plate 750 Animals and Movements, Wild Animals and Birds, Sloth; walking suspended on a horizontal pole

Plate 751 Animals and Movements, Wild Animals and Birds, Kangaroo; walking on all-fours; change to jumping

Plate 752 Animals and Movements, Wild Animals and Birds, Kangaroo; jumping

Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

Oversize 58

Plate 754 Animals and Movements, Wild Animals and Birds, Kangaroo; jumping

Plate 757 Animals and Movements, Wild Animals and Birds, Pigeon; flying

Plate 758 Animals and Movements, Wild Animals and Birds, Cockatoo; flying

Plate 759 Animals and Movements, Wild Animals and Birds, Cockatoo; flying

Oversize 59

Plate 762 Animals and Movements, Wild Animals and Birds, Cockatoo; flying

Plate 763 Animals and Movements, Wild Animals and Birds, Red-tailed hawk; flying

Plate 764 Animals and Movements, Wild Animals and Birds, Fish hawk; flying

Plate 767 Animals and Movements, Wild Animals and Birds, Vulture; flying

Plate 768 Animals and Movements, Wild Animals and Birds, Vulture; flying

Plate 770 Animals and Movements, Wild Animals and Birds, American eagle; flying near the ground

Plate 771 Animals and Movements, Wild Animals and Birds, American eagle; flying near the ground

Plate 772 Animals and Movements, Wild Animals and Birds, Ostrich; walking

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Animal Locomotion Study Collotypes and Publications (cont.)

Duplicate Plates

- | | |
|-------------|---|
| Oversize 59 | Plate 775 Animals and Movements, Wild Animals and Birds, Adjutant; flying run |
| | Plate 776 Animals and Movements, Wild Animals and Birds, Storks; swans, etc., A, B, C |
| | Plate 777 Animals and Movements, Wild Animals and Birds, Storks; etc., A, B, C, D |
| | Plate 779 Animals and Movements, Wild Animals and Birds, Storks; swans, etc |
| | Plate 780 Animals and Movements, Wild Animals and Birds, Storks; swans, etc |
| | Plate 781 Animals and Movements, Wild Animals and Birds, Chickens; scared by torpedo |
| Oversize 52 | Plate ? Movements, Female, plate missing identifying image |
| | Exhibit panel |
| | Exhibit panel |

Photographs

Animal Locomotion Study Original Gelatin Negatives

- | | |
|--------|--|
| Box 60 | Plate 65 Movements, Male, Running |
| | Plate 68 Movements, Male, Running |
| | Plate 76 Movements, Male, Ascending incline |
| | Plate 153 Movements, Male, Jumping; running straight high jump (shoes) |

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Photographs (cont.)

Animal Locomotion Study Original Gelatin Negatives

Box 60

Plate 179 Movements, Female, Stepping on and over a rock, a basket on head, right hand raised

Plate 181 Movements, Female, Stepping over a fence

Plate 234 Movements, Female, Lifting and emptying basin of water and turning

Plate 250 Movements, Female, Rising from chair stooping and lifting handkerchief

Plate 504 Movements, Female, Ascending and descending stairs

Plate 506 Movements, Male, Bricklaying

Plate 511 Movements, Male, Contortions on the ground

Plate 512 Movements, Male, Contortions on rings

Plate 516 Movements, Female, Miscellaneous movements with a water jar

Plate 518 Movements, Female, Sitting down, rising, etc

Plate 520 Movements, Male, A, 98 and 100, wrestling; B, 98 and 100, wrestling; C, 99 and 101, wrestling; D, 99 and 101, sparring without gloves

Plate 524 Movements, Female, A, throwing water from bucket; B, descending step; C, ascending step; D, lawn tennis .

Plate 529 Movements, Male, Various poses

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Photographs (cont.)

Animal Locomotion Study Original Gelatin Negatives

- Box 60 Plate 542 Movements, Female, Multiple cerebro-spinal sclerosis walking
- Plate 547 Movements, Male, Hemiplegia; walking with crutch
- Plate 622 Animals and Movements, Horses, Canter; saddle; 44 rider, 43, nude; gray horse, Smith
- Plate 628 Animals and Movements, Horses, Gallop; bay horse, Daisy

Animal Locomotion Study Copy Negatives

- Box 61 FF 8 Plate 44 Movements, male, walking and taking off a hat
- FF 9 Plate 55 Movements, female, walking and turning around, action of aversion
- FF 10 Plate 159 Movements, male, jumping, running broad jump
- FF 11 Plate 165 Movements, male, jumping and pole-vaulting
- FF 12 Plate 198 Movements, female, curtseying
- FF 13 Plate 234 Movements, female, lifting and emptying a basin of water and turning
- FF 14 Plate 245 Movements, female, two women turning around and sitting on the ground
- FF 15 Plate 257 Movements, male, lying on the ground
- FF 16 Plate 286 Movements, male, baseball, throwing
- FF 17 Plate 363 Movements, male, running somersault

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Photographs (cont.)

Animal Locomotion Study Copy Negatives

Box 61	FF 18	Plate 372 Movements, male, acrobat, horizontal "press up"
	FF 19	Plate 416 Movements, female, toilet, putting on dress
	FF 20	Plate 424 Movements, female, toilet, rising from chair and putting on shawl
	FF 21	Plate 457 Movements, female, stepping on a chair and reaching up
	FF 22	Plate 467 Movements, male, child walking
	FF 23	Plate 481 Movements, female, child lifting a doll, turning and walking off
	FF 24	Plate 490 Movements, male, A,B: Sitting down. C: Sprinkling water. D: Stooping for cup and drinking.
	FF 25	Plate 495 Movements, female, miscellaneous phases of the toilet
	FF 26	Plate 519 Movements, male, A: Throwing a disk. B: Ascending a step. C: Walking.
	FF 27	Plate 527 Movements, female, A-C: Spanking a child.
	FF 28	Plate 535 Movement of the hand, clasping hands
	FF 29	Plate 541 Movements, female, spastic walking
	FF 30	Plate 574 Animals and Movements, horses, "Hansel" walking, free
	FF 31	Plate 591 Animals and Movements, horses, "Pronto" pacing, saddled

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Photographs (cont.)

Animal Locomotion Study Copy Negatives

Box 61	FF 32	Plate 605 Animals and Movements, horses, "Reuben" trotting, harnessed to sulky
	FF 33	Plate 609 Animals and Movements, horses, "Lizzie M." trotting, harnessed to sulky
	FF 34	Plate 624 Animals and Movements, horses, "Daisy" galloping, saddled
	FF 35	Plate 625 Animals and Movements, horses, "Bouquet" galloping
	FF 36	Plate 627 Animals and Movements, horses, "Annie G." galloping
	FF 37	Plate 632 Animals and Movements, horses, "Bouquet" galloping, saddled
	FF 38	Plate 636 Animals and Movements, horses, "Daisy" jumping a hurdle, saddled, preparing for the leap
	FF 39	Plate 637 Animals and Movements, horses, "Daisy" jumping a hurdle, saddled, clearing and landing and recovering
	FF 40	Plate 642 Animals and Movements, horses, "Pandora" jumping a hurdle, saddled; rider nude
	FF 41	Plate 646 Animals and Movements, horses, "Pandora" jumping a hurdle, saddled; rider nude
	FF 42	Plate 699 Animals and Movements, wild animals and birds, buffalo walking
	FF 43	Plate 719 Animals and Movements, domestic animals, cat galloping

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Photographs (cont.)

Animal Locomotion Study Copy Negatives

Box 61	FF 44	Plate 730 Animals and Movements, wild animals and birds, tigress walking and turning around
	FF 45	Plate 731 Animals and Movements, wild animals and birds, Jaguar. A: Walking. B: Turning around.
	FF 46	Plate 759 Animals and Movements, wild animals and birds, cockatoo flying
	FF 47	Plate 762 Animals and Movements, wild animals and birds, cockatoo flying
	FF 48	Plate 763 Animals and Movements, wild animals and bird, red-tailed hawk flying
	FF 49	Plate 770 Animals and Movements, wild animals and birds, American eagle flying near the ground
	FF 50	Plate 771 Animals and Movements, wild animals and birds, American eagle flying near the ground

Copy Negatives (Other)

FF 1	Apparatus
FF 2	Back of camera showing electromagnetically released
FF 3	Camera in Penn's collection
FF 4	Camera shed and equipment
FF 5	Photo team
FF 6	Plaque hanging on Library at Kingston-on-Thames
FF 7	Plate holder and lens

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Photographs (cont.)

Photographs of Muybridge and His Project and Copy Photographs

Box 61	FF 51	"Animals in Motion"
	FF 52	Equipment
	FF 53	Miscellaneous
	FF 54	Muybridge
	FF 55	Photo Team

Correspondence Contemporary with the Study

Box 62	FF 6	1887-1901
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Miscellaneous Documentation

FF 7	Advertisement for Burlington Mills, 1948
FF 8	Advertisement for Zoetrope
FF 9	Apparatus
FF 10	Panoramic San Francisco, 1877
FF 11	Program, "Ninth Entertainment of the Young Men's Society," 1870
FF 12	Receipts and Certificates, 1888-1899
FF 13	Ticket, "Lecture Course of the Scientific Society," 1885

Cameras and Related Apparatus

Oversize 73	Camera Back, for a View Camera. "Folmer and Schwing division, Eastman Kodak and Co."L: 15", w: 2.5", h:15"
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Cameras and Related Apparatus (cont.)

- Oversize 72 Camera Back, Rotating (possibly for lantern slides), fits Copy Camera. "Folmer and Schwing division, Eastman Kodak Co." L: 12.75", w: 2.75", h: 12.75"
- Camera Back, Sliding, fits Copy Camera. "Manufactured by The Anthony and Scovill Co." L: 29", w: 1.75". H: 13.5"
- Box 64 Camera, race track #21. L: 22", w: 5.75", h: 5.8".
- Box 71 Contact printing frame, missing glass insert. L: 7", w: 1", h: 9"
- Contact printing frame, with glass insert. Scovill. L: 7", w: 1", h: 9"
- Contact printing frame, with glass insert. L: 10", w: 1.25", h: 12"
- Oversize 73 Contact printing frame, with glass insert. L: 18.5", w: 1.5", h: 22.75"
- Box 71 Contact printing frame, with glass insert. L: 7", w: 1", h: 9"
- Oversize 70 Copy Camera, with part of bellows extended. L: 28", w: 12.75", h: 15.5"
- Oversize 73 Cropping masks, nesting. L: 18", w: 0.25", h: 18"
- Dry Plate Holder. L: 16.5", w: 1", h: 21"
- Oversize 74 Film holder, 40.5 x 6 "
- Oversize 73 Frame. L: 9.75", w: 0.5", h: 12"
- Box 66 Lens board #12. L: 7.45", w: 4.6", h: 0.6"
- Box 71 Lens board, for copy camera. "Voigtl. Collinear 7 7/8". L: 11", w: 0.5", h: 11"

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Cameras and Related Apparatus (cont.)

- Box 68 Lens board, with flange. L: 4.5", w: 0.1", h: 4.5"
- Box 67 Lens holder (2 pieces, cap has 3" square opening). D: 5.7", h: 5.7"
- Box 68 Lens holder, possibly used for a projector. Bausch & Lomb. D:
2.5", h: 6.1"
- Lens holder. No. 9. C.P. Coerz XVI. D: 3.3", h: 7.0"
- Lens mounted in wood holder, probably for a projector. D: 4.8",
h: 7.5"
- Box 65 Lens mounted in wood holder, probably for a projector. J.H.
Dallmeyer, London, No. 34849. D: 4.5", h: 8.25"
- Box 68 Lens with box. Carl Zeiss, series 1C, focus 250. Lens: d: 3.25", h:
1.8"; Box: d: 3.4", 4.0"
- Lens with leather caps. C.P. Coerz, double-anastigmat., Series 3,
no. 8, focus 19 in., no. 150968. D: 2.75", h: 2.25"
- Box 69 Lens. Jas. W. Queens & Co., Philadelphia, Rapid Rectilinear, 31"
focus; 20x24. D: 5.2", h: 8.5"
- Box 68 Lens. Unidentified maker. D: 3.6", h: 3.8"
- Lens caps (2), leather.
- Oversize 72 Panel with frosted glass. L: 12.5", w: 1.25", h: 12.75"
- Box 66 Plate holder for race track camera #36. L: 1.0", w: 6.0", h: 5.5"
- Box 71 Retouching desk. Unfolded: L: 24.5", w: 13", h: 10.5"

Zoetrope

- Box 63 Zoetrope, 5 component pieces, manufactured by Milton Bradley.

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Zoetrope (cont.)

Oversize 18 - 23 Zoetrope strips, label and illustration

Published Material

Box 62 FF 19 Muybridge's Strings, film by Michael Fukushima, National Film Board of Canada (stored on a DVD), 2011

Oversize 1 - 1 Muybridge and/or Motion Pictures, 1916; Matted newspaper article, "Moving Pictures Sprang from Study in Optics"

Box 62 FF 15 Muybridge and/or Motion Pictures, 1885-1890

 FF 16 Muybridge and/or Motion Pictures, 1912-1941

 FF 17 Muybridge and/or Motion Pictures, 1946-1981

 FF 14 Muybridge and/or Motion Pictures, Undated

 FF 18 Muybridge and/or Motion Pictures, University Publications, 1885-1888

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