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The University Archives
and Records Center

A Guide to the
Eadweard Muybridge Collection
1870-1981

20.0 Cubic feet

UPT 50 M993

Prepared by Amy Miller, revised by DiAnna Hemsath and Mary D. McConaghy
October 2000, January 2005, September 2008

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TABLE OF CONTENTS

<u>PROVENANCE</u>	1
<u>ARRANGEMENT</u>	1
<u>BIOGRAPHICAL NOTE</u>	2
<u>SCOPE AND CONTENT</u>	3
<u>CONTROLLED ACCESS HEADINGS</u>	4
<u>INVENTORY</u>	6
<u>ANIMAL LOCOMOTION STUDY COLLOTYPES AND PUBLICATIONS</u>	6
<u>PHOTOGRAPHS</u>	44
<u>CORRESPONDENCE CONTEMPORARY WITH THE STUDY</u>	48
<u>MISCELLANEOUS DOCUMENTATION</u>	48
<u>CAMERAS AND RELATED APPARATUS</u>	49
<u>ZOETROPE</u>	50
<u>PUBLISHED MATERIAL</u>	50

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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.

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. and Leonore Annenberg Rare Book and Manuscript Library of the University of Pennsylvania contain additional material.

CONTROLLED ACCESS HEADINGS

Corporate Name(s)

- University of Pennsylvania. School of Veterinary Medicine.

Subject(s)

- Animal locomotion.
- Human locomotion.
- Motion pictures--Pennsylvania.
- Photography--Equipment and supplies.
- Photography--Pennsylvania--Philadelphia.

**Eadweard Muybridge Collection
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INVENTORY

ANIMAL LOCOMOTION STUDY COLLOTYPES AND PUBLICATIONS	Box	Folder
Descriptive Zoopraxography or the Science of Animal Locomotion, 1893	62	1
Prospectus and Catalog of Plates, 1887	62	2
Prospectus and Catalog of Plates, 1887	62	3
Reviews	62	4
Subscription Offer	62	5
Plates		
Reviews	OS 1	1
Title Page	OS 1	2
Plate 1 Movements, Male, Walking	OS 1	3
Plate 2 Movements, Male, Walking	OS 1	3
Plate 3 Movements, Male, Walking	OS 1	3
Plate 4 Movements, Male, Walking	OS 1	3
Plate 5 Movements, Male, Walking	OS 1	3
Plate 6 Movements, Male, Walking	OS 1	4

Plate 7 Movements, Male, Walking	OS 1	4
Plate 8 Movements, Male, Walking	OS 1	4
Plate 9 Movements, Male, Walking	OS 1	4
Plate 10 Movements, Male, Walking	OS 1	4
Plate 11 Movements, Male, Walking	OS 1	5
Plate 12 Movements, Male, Walking	OS 1	5
Plate 13 Movements, Female, Walking	OS 1	5
Plate 15 Movements, Female, Walking	OS 1	5
Plate 16 Movements, Female, Walking	OS 1	5
Plate 17 Movements, Female, Walking	OS 1	6
Plate 18 Movements, Female, Walking, left hand across abdomen	OS 1	6
Plate 19 Movements, Female, Walking, commencing to turn around	OS 1	6
Plate 20 Movements, Female, Walking, right elbow bent	OS 1	6
Plate 21 Movements, Female, Walking, both elbows bent	OS 1	6
Plate 22 Movements, Female, Walking, with high-heeled boots on	OS 1	7
Plate 23 Movements, Female, Walking, right hand at chin, high-heeled shoes on	OS 1	7
Plate 24 Movements, Female, Walking, with high-heeled shoes on	OS 1	7
Plate 25 Movements, Female, Walking, with high-heeled shoes on	OS 1	7
Plate 26 Movements, Male, Walking, carrying 75-lb. stone on left shoulder	OS 1	7
Plate 27 Movements, Male, Walking, carrying 75-lb. stone on head, hands raised	OS 1	8
Plate 28 Movements, Male, Walking, carrying 50-lb. dumb-bell in right hand	OS 1	8

Plate 29 Movements, Male, Walking, carrying bucket of water in each hand	OS 1	8
Plate 30 Movements, Male, Walking, carrying bucket of water in each hand	OS 1	8
Plate 31 Movements, Male, Walking, carrying 75-lb. stone on right shoulder	OS 1	8
Plate 32 Movements, Female, Walking, carrying bucket of water in each hand	OS 1	9
Plate 33 Movements, Female, Walking, carrying 14-lb. basket on head, hands raised	OS 1	9
Plate 34 Movements, Female, Walking, carrying 15-lb. basket on head, hands raised	OS 1	9
Plate 35 Movements, Female, Walking, carrying child (70) on right arm	OS 1	9
Plate 36 Movements, Female, Walking, carrying child on left arm	OS 1	9
Plate 37 Movements, Female, Walking, left hand holding dress, right hand at face	OS 1	10
Plate 38 Movements, Female, Walking, opening parasol	OS 1	10
Plate 39 Movements, Female, Walking, hands engaged in knitting	OS 1	10
Plate 40 Movements, Female, Walking, throwing handkerchief over shoulders	OS 1	10
Plate 41 Movements, Female, Walking, flirting a fan	OS 1	10
Plate 42 Movements, Female, Walking, pouring water from pitcher	OS 1	11
Plate 43 Movements, Female, Walking, sprinkling water from basin, turning around	OS 1	11
Plate 44 Movements, Male, Walking, taking off hat	OS 1	11
Plate 45 Movements, Female, Walking, two models meeting, and partly turning	OS 1	11
Plate 46 Movements, Female, Walking, flirting a fan, and turning around	OS 1	11
Plate 47 Movements, Female, Walking and turning around	OS 1	12

Plate 48 Movements, Female, Walking and turning around bouquet in both hands	OS 1	12
Plate 50 Movements, Female, Walking and turning around, carrying bucket of water in left hand	OS 1	12
Plate 51 Movements, Female, Walking turning around, using sprinkling pot	OS 1	12
Plate 52 Movements, Female, Walking carrying child, turning around; another child (70) holding on to dress of 93	OS 1	12
Plate 53 Movements, Female, Walking scattering flowers and turning around	OS 1	13
Plate 54 Movements, Female, Walking two models (one flirting a fan), arm in arm, turning around	OS 1	13
Plate 55 Movements, Female, Walking turning around, action of aversion	OS 1	13
Plate 56 Movements, Female, Walking turning and stooping to lift train	OS 1	13
Plate 57 Movements, Female, Walking turning around, 10lb. basket on head	OS 1	13
Plate 58 Movements, Female, Walking turning around, sweeping the floor	OS 1	14
Plate 59 Movements, Male, Starting for a run (shoes)	OS 1	14
Plate 60 Movements, Male, Running at a half-mile gait (shoes)	OS 1	14
Plate 61 Movements, Male, Running full speed (imperfect action, shoes)	OS 1	14
Plate 63 Movements, Male, Running full speed	OS 1	14
Plate 65 Movements, Male, Running full speed	OS 1	15
Plate 66 Movements, Male, Running	OS 1	15
Plate 67 Movements, Male, Running	OS 1	15
Plate 68 Movements, Male, Running	OS 1	15
Plate 69 Movements, Male, Running two models	OS 1	15

Plate 71 Movements, Female, Running	OS 1	16
Plate 72 Movements, Female, Running leading child (70) hand in hand	OS 1	16
Plate 73 Movements, Female, Turning around in surprise and running away	OS 1	16
Plate 74 Movements, Male, Ascending incline, angle 1 in 4	OS 1	16
Plate 75 Movements, Male, Ascending incline	OS 1	16
Plate 76 Movements, Female, Ascending incline	OS 2	1
Plate 77 Movements, Female, Ascending incline	OS 2	1
Plate 78 Movements, Female, Ascending incline, flirting a fan	OS 2	1
Plate 79 Movements, Female, Ascending incline	OS 2	1
Plate 80 Movements, Female, Ascending incline, 20-lb. basket on head	OS 2	1
Plate 81 Movements, Female, Ascending incline, bucket of water in each hand	OS 2	2
Plate 82 Movements, Female, Ascending incline, bucket of water in each hand	OS 2	2
Plate 83 Movements, Female, Ascending incline, bucket of water in right hand	OS 2	2
Plate 84 Movements, Female, Ascending incline, bucket of water in right hand	OS 2	2
Plate 85 Movements, Female, Ascending incline, (wearing shoes)	OS 2	2
Plate 87 Movements, Female, Ascending incline, bucket water each hand (shoes)	OS 2	3
Plate 88 Movements, Male, Ascending stairs	OS 2	3
Plate 89 Movements, Male, Ascending stairs	OS 2	3
Plate 90 Movements, Male, Ascending stairs	OS 2	3
Plate 91 Movements, Male, Ascending stairs	OS 2	3

Plate 92 Movements, Female, Ascending stairs	OS 2	4
Plate 93 Movements, Female, Ascending stairs	OS 2	4
Plate 94 Movements, Female, Ascending stairs looking around; basin in hands	OS 2	4
Plate 95 Movements, Female, Ascending stairs a basin in hands	OS 2	4
Plate 96 Movements, Female, Ascending stairs looking round, waving handkerchief	OS 2	4
Plate 99 Movements, Female, Turning and ascending stairs	OS 2	5
Plate 100 Movements, Female, Turning and ascending stairs	OS 2	5
Plate 101 Movements, Female, Turning and ascending stairs, waving hand	OS 2	5
Plate 102 Movements, Female, Turning, ascending stairs, bucket water in right hand	OS 2	5
Plate 103 Movements, Female, Turning and ascending stairs, pitcher and goblet in hands	OS 2	5
Plate 104 Movements, Female, Turning, ascending stairs, bucket water in each hand	OS 2	6
Plate 105 Movements, Female, Turning, ascending stairs, water jar on left shoulder	OS 2	6
Plate 106 Movements, Female, Turning to ascend stairs, bucket of water in each hand	OS 2	6
Plate 107 Movements, Female, Turning to ascend stairs, bucket of water and broom in hands	OS 2	6
Plate 108 Movements, Female, Turning to ascend stairs; stooping, lifting a pitcher	OS 2	6
Plate 109 Movements, Male, Ascending step-ladder	OS 2	7
Plate 110 Movements, Female, Ascending step-ladder two steps at a time	OS 2	7
Plate 111 Movements, Male, Ascending ladder	OS 2	7
Plate 112 Movements, Female, Ascending ladder	OS 2	7

Plate 113 Movements, Male, Descending incline, angle 1 in 4	OS 2	7
Plate 114 Movements, Male, Descending incline	OS 2	8
Plate 115 Movements, Female, Descending incline with hands clasped in front .	OS 2	8
Plate 116 Movements, Female, Descending incline one hand on chin	OS 2	8
Plate 118 Movements, Female, Descending incline	OS 2	8
Plate 119 Movements, Female, Descending incline right hand on breast (shoes)	OS 2	8
Plate 120 Movements, Female, Descending incline bucket of water in right hand	OS 2	9
Plate 121 Movements, Female, Descending incline bucket of water in each hand	OS 2	9
Plate 122 Movements, Female, Descending incline bucket of water in each hand	OS 2	9
Plate 123 Movements, Female, Descending incline, 20-lb. basket on head, hands raised	OS 2	9
Plate 124 Movements, Female, Descending incline, 20-lb. basket on head, hands raised	OS 2	9
Plate 125 Movements, Male, Descending stairs	OS 2	10
Plate 126 Movements, Male, Descending stairs	OS 2	10
Plate 127 Movements, Male, Descending stairs	OS 2	10
Plate 128 Movements, Female, Descending stairs hands clasped	OS 2	10
Plate 129 Movements, Female, Descending stairs	OS 2	10
Plate 130 Movements, Female, Descending stairs	OS 2	11
Plate 131 Movements, Female, Descending stairs waving hand	OS 2	11
Plate 132 Movements, Female, Descending stairs turning to look around, and waving hand	OS 2	11

Plate 133 Movements, Female, Descending stairs throwing handkerchief over shoulders	OS 2	11
Plate 134 Movements, Female, Descending stairs with basin in hands	OS 2	11
Plate 136 Movements, Male, Descending stairs full demijohn on shoulder	OS 2	12
Plate 137 Movements, Female, Descending stairs turning around	OS 2	12
Plate 138 Movements, Female, Descending stairs turning; pitcher in left hand	OS 2	12
Plate 139 Movements, Female, Descending stairs turning	OS 2	12
Plate 140 Movements, Female, Descending stairs looking around and waving fan	OS 2	12
Plate 142 Movements, Female, Descending stairs turning dress caught	OS 2	13
Plate 143 Movements, Female, Descending stairs turning cup and saucer in right hand	OS 2	13
Plate 144 Movements, Female, Descending stairs turning basin in hands	OS 2	13
Plate 145 Movements, Female, Descending stairs turning bucket water in right hand	OS 2	13
Plate 146 Movements, Female, Descending stairs turning water jar on left shoulder	OS 2	13
Plate 147 Movements, Female, Descending stairs turning water jar on right shoulder	OS 2	14
Plate 148 Movements, Female, Descending stairs turning carrying bucket of water and broom	OS 2	14
Plate 149 Movements, Female, Descending stairs stooping to lift a pitcher	OS 2	14
Plate 150 Movements, Female, Descending stairs stooping lifting pitcher, turning	OS 2	14
Plate 151 Movements, Male, Descending step-ladder, turning around, rock in hands	OS 2	14

Plate 152 Movements, Male, Jumping; running straight high jump (shoes)	OS 2	15
Plate 153 Movements, Male, Jumping; running straight high jump (shoes)	OS 2	15
Plate 154 Movements, Male, Jumping; running straight high jump	OS 2	15
Plate 156 Movements, Female, Jumping; running straight high jump	OS 2	15
Plate 157 Movements, Male, Jumping; running twist high jump (shoes)	OS 2	15
Plate 158 Movements, Male, Jumping; running twist high jump (shoes)	OS 3	1
Plate 159 Movements, Male, Jumping; running broad jump (shoes)	OS 3	1
Plate 160 Movements, Male, Jumping; running broad jump (shoes)	OS 3	1
Plate 161 Movements, Male, Jumping; standing high jump	OS 3	1
Plate 162 Movements, Male, Jumping; standing broad jump	OS 3	1
Plate 163 Movements, Male, Jumping; standing broad jump (shoes)	OS 3	2
Plate 165 Movements, Male, Jumping; pole vaulting	OS 3	2
Plate 166 Movements, Male, Jumping; over man's back (leap-frog)	OS 3	2
Plate 167 Movements, Male, Jumping; over boy's back (leap-frog)	OS 3	2
Plate 168 Movements, Male, Jumping; over boy's back (leap-frog)	OS 3	2
Plate 169 Movements, Male, Jumping; over boy's back (leap-frog)	OS 3	3
Plate 170 Movements, Female, Jumping from stone to stone across a brook	OS 3	3
Plate 171 Movements, Female, Stepping up on a trestle; jumping down, turning	OS 3	3
Plate 175 Movements, Female, Crossing brook on step-stones with fishing-pole and can	OS 3	3
Plate 178 Movements, Female, Stepping on and over a trestle	OS 3	3

Plate 180 Movements, Female, Stepping on and over a chair..	OS 3	4
Plate 182 Movements, Female, Crawling on hands and knees	OS 3	4
Plate 183 Movements, Female, Walking on hands and feet	OS 3	4
Plate 184 Movements, Female, Walking on hands and feet	OS 3	4
Plate 185 Movements, Female, Hopping on left foot	OS 3	4
Plate 186 Movements, Male, Hopping on right foot	OS 3	5
Plate 191 Movements, Female, Dancing (fancy)	OS 3	5
Plate 193 Movements, Female, Dancing (fancy)	OS 3	5
Plate 195 Movements, Female, Dancing waltz	OS 3	5
Plate 197 Movements, Male and Female, Dancing waltz two models	OS 3	5
Plate 198 Movements, Female, Curtseying	OS 3	6
Plate 199 Movements, Female, Curtseying fan in right hand	OS 3	6
Plate 200 Movements, Female, Curtseying kissing hand and turning around	OS 3	6
Plate 201 Movements, Female, Taking 12-lb. basket from head, putting it on the ground	OS 3	6
Plate 202 Movements, Female, Dropping and lifting handkerchief	OS 3	6
Plate 204 Movements, Female, Stooping to pick up ball	OS 3	7
Plate 207 Movements, Female, Stooping and lifting train	OS 3	7
Plate 208 Movements, Female, Dropping a fan and stooping to lift it	OS 3	7
Plate 211 Movements, Female, Stooping and lifting handkerchief; parasol in left hand	OS 3	7
Plate 212 Movements, Female, Dropping broom and lifting bucket of water	OS 3	7
Plate 213 Movements, Female, Lifting and emptying basket	OS 3	8

Plate 215 Movements, Female and Child, Placing child (70) on the ground, child running off	OS 3	8
Plate 216 Movements, Female, Bending to fill water-jar ; placing jar on head	OS 3	8
Plate 217 Movements, Female, Stooping, lifting, and carrying 30-lb. basket	OS 3	8
Plate 218 Movements, Male, Stooping and lifting full demijohn to shoulder	OS 3	8
Plate 219 Movements, Female, Stooping and lifting broom and sweeping	OS 3	9
Plate 220 Movements, Female, Stooping and lifting handkerchief and turning	OS 3	9
Plate 221 Movements, Female, Stooping and lifting 12-lb. basket to head	OS 3	9
Plate 222 Movements, Female, Stooping and lifting water jar to head and turning	OS 3	9
Plate 223 Movements, Female, Stooping and lifting basin, wiping it, and turning	OS 3	9
Plate 225 Movements, Female, Removing water jar from shoulder to the ground	OS 3	10
Plate 226 Movements, Female, Removing water jar from shoulder to the ground and turning	OS 3	10
Plate 227 Movements, Female, Lifting cloth from the ground, placing it around shoulders, and turning	OS 3	10
Plate 228 Movements, Female, Turning and lifting water jar from the ground	OS 3	10
Plate 229 Movements, Female, Placing basket on the ground and turning	OS 3	10
Plate 230 Movements, Female, Lifting 30-lb. basket from ground to head, turning	OS 3	11
Plate 231 Movements, Female, Stooping to arrange train and turning	OS 3	11
Plate 232 Movements, Female, Stooping to lift train and turning	OS 3	11

Plate 233 Movements, Female, Lifting shawl, putting around shoulders, turning	OS 3	11
Plate 234 Movements, Female, Lifting and emptying basin of water and turning	OS 3	11
Plate 235 Movements, Female, Turning and removing water jar from shoulder to the ground	OS 3	12
Plate 237 Movements, Female, Sitting down on chair and opening fan	OS 3	12
Plate 238 Movements, Female, Sitting on chair, crossing legs, drinking from teacup	OS 3	12
Plate 239 Movements, Female, Two models; one standing, the other sitting, crossing legs	OS 3	12
Plate 240 Movements, Female, Sitting and flirting a fan	OS 3	12
Plate 241 Movements, Female, Placing chair, sitting and reading	OS 3	13
Plate 242 Movements, Female, Placing chair, sitting and flirting a fan	OS 3	13
Plate 243 Movements, Female, Placing chair and sitting, parasol in left hand	OS 3	13
Plate 244 Movements, Female, Sitting, crossing legs, filling goblet from pitcher	OS 3	13
Plate 245 Movements, Female, Two models, turning around, sitting on the ground	OS 3	13
Plate 246 Movements, Female, Placing chair, sitting and flirting a fan	OS 3	14
Plate 247 Movements, Female, Sitting down, placing feet on chair	OS 3	14
Plate 248 Movements, Female, Sitting down on the ground	OS 3	14
Plate 249 Movements, Male, Rising from chair	OS 3	14
Plate 251 Movements, Female, Kneeling on left knee, basket in 1. hand, and rising	OS 3	14
Plate 252 Movements, Female, Kneeling on right knee and scrubbing the floor	OS 3	15

Plate 253 Movements, Female, Kneeling elbows on chair, hands clasped	OS 3	15
Plate 254 Movements, Female, Kneeling elbows on chair, hands clasped	OS 3	15
Plate 255 Movements, Female, Arising from kneeling and turning	OS 3	15
Plate 256 Movements, Female, Lying on the ground and reading	OS 3	15
Plate 257 Movements, Male, Lying on the ground and reading	OS 4	1
Plate 258 Movements, Male, Arising from the ground and walking off	OS 4	1
Plate 259 Movements, Male, Lying on a couch and turning over on side	OS 4	1
Plate 260 Movements, Male, Arising from couch and stretching arms	OS 4	1
Plate 261 Movements, Female, Getting into hammock.	OS 4	1
Plate 262 Movements, Female, Getting out of hammock	OS 4	2
Plate 263 Movements, Female, Getting into bed	OS 4	2
Plate 264 Movements, Female, Getting out of bed and preparing to kneel	OS 4	2
Plate 265 Movements, Female, Getting out of bed and preparing to kneel	OS 4	2
Plate 266 Movements, Female, Turning and changing position while on the ground	OS 4	2
Plate 267 Movements, Female, Turning and changing position while on the ground	OS 4	3
Plate 268 Movements, Female, Arising from the ground	OS 4	3
Plate 269 Movements, Female, Arising from the ground with newspaper in left hand	OS 4	3
Plate 270 Movements, Female, Arising from the ground with pamphlet in left hand	OS 4	3
Plate 271 Movements, Female, Arising from the ground with a paper in left hand	OS 4	3

Plate 272 Movements, Female, Stumbling and falling on the ground	OS 4	4
Plate 273 Movements, Male, Base-ball; pitching	OS 4	4
Plate 274 Movements, Male, Base-ball; batting	OS 4	4
Plate 275 Movements, Male, Base-ball; batting (low ball)	OS 4	4
Plate 276 Movements, Male, Base-ball; batting	OS 4	4
Plate 277 Movements, Male, Base-ball; batting	OS 4	5
Plate 278 Movements, Male, Base-ball; batting	OS 4	5
Plate 279 Movements, Male, Base-ball; batting	OS 4	5
Plate 280 Movements, Male, Base-ball; catching	OS 4	5
Plate 281 Movements, Male, Base-ball; catching and throwing	OS 4	5
Plate 282 Movements, Male, Base-ball; catching and throwing	OS 4	6
Plate 283 Movements, Male, Base-ball; catching and throwing	OS 4	6
Plate 284 Movements, Male, Base-ball; catching and throwing	OS 4	6
Plate 285 Movements, Male, Base-ball; catching and throwing	OS 4	6
Plate 286 Movements, Male, Base-ball; throwing	OS 4	6
Plate 287 Movements, Male, Base-ball; running and picking up ball	OS 4	7
Plate 288 Movements, Male, Base-ball; error	OS 4	7
Plate 289 Movements, Male, Cricket; round arm bowling	OS 4	7
Plate 290 Movements, Male, Cricket; over arm bowling	OS 4	7
Plate 291 Movements, Male, Cricket; batting; drive	OS 4	7
Plate 292 Movements, Male, Cricket; batting; back cut	OS 4	8
Plate 293 Movements, Male, Cricket; batting; back cut	OS 4	8
Plate 294 Movements, Male, Lawn tennis; serving	OS 4	8

Plate 295 Movements, Female, Lawn tennis	OS 4	8
Plate 296 Movements, Female, Lawn tennis	OS 4	8
Plate 297 Movements, Female, Lawn tennis	OS 4	9
Plate 298 Movements, Female, Lawn tennis	OS 4	9
Plate 299 Movements, Female, Playing with a ball	OS 4	9
Plate 300 Movements, Male, Foot-ball; drop kick	OS 4	9
Plate 301 Movements, Male, Foot-ball; punt	OS 4	9
Plate 302 Movements, Male, Picking up a ball and throwing it	OS 4	10
Plate 303 Movements, Male, Picking up a ball and throwing it	OS 4	10
Plate 304 Movements, Female, Picking up a ball and throwing it	OS 4	10
Plate 305 Movements, Female, Picking up a ball and throwing it	OS 4	10
Plate 306 Movements, Female, Picking up a ball and throwing it	OS 4	10
Plate 307 Movements, Male, Throwing an iron disk	OS 4	11
Plate 308 Movements, Male, Throwing the hammer	OS 4	11
Plate 309 Movements, Male, Throwing the hammer	OS 4	11
Plate 310 Movements, Male, Putting the shot	OS 4	11
Plate 311 Movements, Male, Heaving a 75-lb. rock	OS 4	11
Plate 312 Movements, Male, Heaving a 75-lb. rock	OS 4	12
Plate 313 Movements, Male, Heaving a 20-lb. rock	OS 4	12
Plate 314 Movements, Male, Heaving a 20-lb. rock	OS 4	12
Plate 315 Movements, Male, Heaving a 20-lb. rock	OS 4	12
Plate 317 Movements, Male, Heaving a 75-lb. rock	OS 4	12
Plate 318 Movements, Male, Lifting a 75-lb. rock	OS 4	13
Plate 319 Movements, Male, Heaving a 75-lb. rock	OS 4	13

Plate 320 Movements, Male, Lifting 50-lb. dumb-bell	OS 4	13
Plate 321 Movements, Male, lifting 50-lb. dumb-bell ; B, posing	OS 4	13
Plate 322 Movements, Male, Lifting and letting down two 50-lb. dumb-bells	OS 4	13
Plate 323 Movements, Male, Lifting and letting down two 50-lb. dumb-bells	OS 4	14
Plate 324 Movements, Male, Curling 50-lb. dumb-bell, model 3/4 length	OS 4	14
Plate 325 Movements, Male, Lifting and holding two 50-lb. dumb-bells	OS 4	14
Plate 326 Movements, Male, Lifting 50-lb. dumb-bell at arm's length	OS 4	14
Plate 327 Movements, Male, Rowing	OS 4	14
Plate 328 Movements, Male, Rowing	OS 4	15
Plate 329 Movements, Male, Boxing; (shoes)	OS 4	15
Plate 330 Movements, Male, Boxing; cross-counter (shoes)	OS 4	15
Plate 331 Movements, Male, Boxing; stop for cross-buttocks (shoes)	OS 4	15
Plate 332 Movements, Male, Boxing; cross-buttocks (shoes)	OS 4	15
Plate 333 Movements, Male, Boxing; 53 knocking 52 down (shoes)	OS 5	1
Plate 334 Movements, Male, Boxing; with gloves (shoes)	OS 5	1
Plate 335 Movements, Male, Boxing; with gloves (shoes)	OS 5	1
Plate 336 Movements, Male, Boxing; open hand (shoes)	OS 5	1
Plate 338 Movements, Male, Boxing; open hand (shoes)	OS 5	1
Plate 339 Movements, Male, Boxing; open hand (shoes)	OS 5	2
Plate 340 Movements, Male, Boxing; open hand (shoes)	OS 5	2
Plate 341 Movements, Male, Boxing; open hand (shoes)	OS 5	2

Plate 342 Movements, Male, Boxing; open hand (shoes)	OS 5	2
Plate 343 Movements, Male, Striking a blow (left hand)	OS 5	2
Plate 344 Movements, Male, Striking a blow (right hand)	OS 5	3
Plate 345 Movements, Male, Wrestling; lock	OS 5	3
Plate 346 Movements, Male, Wrestling; lock	OS 5	3
Plate 348 Movements, Male, Wrestling; Greco-Roman	OS 5	3
Plate 350 Movements, Male, Fencing	OS 5	3
Plate 351 Movements, Male, "Fix" and "unfix bayonets"	OS 5	4
Plate 352 Movements, Male, "Shoulder," "order," and "carry arms"	OS 5	4
Plate 354 Movements, Male, "Carry arms," "parade rest," and "trail arms"	OS 5	4
Plate 355 Movements, Male, On guard, walking and turning around	OS 5	4
Plate 356 Movements, Male, Kneeling, firing and rising	OS 5	4
Plate 357 Movements, Male, Lying prone and firing	OS 5	5
Plate 358 Movements, Male, Lying on back and firing	OS 5	5
Plate 359 Movements, Male, Charging bayonet	OS 5	5
Plate 360 Movements, Male, Throwing a spear	OS 5	5
Plate 361 Movements, Male, Throwing a spear	OS 5	5
Plate 362 Movements, Male, Back somersault	OS 5	6
Plate 363 Movements, Male, Running somersault	OS 5	6
Plate 364 Movements, Male, Hand-spring over man's back	OS 5	6
Plate 365 Movements, Male, Head-spring, a flying pigeon interfering	OS 5	6
Plate 366 Movements, Male, Running, hitch and kick	OS 5	6
Plate 368 Movements, Male, Acrobat descending stairs on hands	OS 5	7

Plate 369 Movements, Male, First ballet action	OS 5	7
Plate 370 Movements, Male, First ballet action	OS 5	7
Plate 371 Movements, Male, Acrobat, vertical "press up"	OS 5	7
Plate 372 Movements, Male, Acrobat, horizontal "press up"	OS 5	7
Plate 373 Movements, Male, Acrobat, "press up" from chair	OS 5	8
Plate 374 Movements, Male, Blacksmiths, two models, hammering on anvil	OS 5	8
Plate 375 Movements, Male, Blacksmiths, two models, hammering on anvil	OS 5	8
Plate 376 Movements, Male, Blacksmith, hammering on anvil, two hands	OS 5	8
Plate 377 Movements, Male, Blacksmiths, two models, hammering on anvil	OS 5	8
Plate 378 Movements, Male, Blacksmith, hammering on anvil, two hands	OS 5	9
Plate 379 Movements, Male, Carpenter, planing a board	OS 5	9
Plate 380 Movements, Male, Carpenter, sawing a board	OS 5	9
Plate 381 Movements, Male, Mason, laying a brick	OS 5	9
Plate 382 Movements, Male, Lifting a log on end	OS 5	9
Plate 383 Movements, Male, Lifting a log on shoulder	OS 5	10
Plate 384 Movements, Male, Heaving a log from shoulder	OS 5	10
Plate 385 Movements, Male, Farmer, using a pick	OS 5	10
Plate 387 Movements, Male, Farmer, using a long-handled shovel	OS 5	10
Plate 388 Movements, Male, Farmer, using spade	OS 5	10
Plate 389 Movements, Male, Farmer, scattering seed	OS 5	11
Plate 390 Movements, Male, Farmer, mowing grass	OS 5	11
Plate 391 Movements, Male, Farmer, mowing grass	OS 5	11

Plate 392 Movements, Male, Dragging a garden roller	OS 5	11
Plate 393 Movements, Male, Pushing a garden roller	OS 5	11
Plate 394 Movements, Male, Turning a crank handle	OS 5	12
Plate 395 Movements, Male, Turning a crank handle	OS 5	12
Plate 396 Movements, Male, Pounding with a mallet	OS 5	12
Plate 397 Movements, Male, Lifting 75-lb. stone on shoulder	OS 5	12
Plate 398 Movements, Male, Lifting bucket of water to empty it	OS 5	12
Plate 399 Movements, Male, Emptying bucket of water	OS 5	13
Plate 400 Movements, Male, Emptying bucket of water	OS 5	13
Plate 401 Movements, Female, Emptying bucket of water	OS 5	13
Plate 403 Movements, Female, Emptying bucket of water	OS 5	13
Plate 404 Movements, Female, Emptying bucket of water	OS 5	13
Plate 405 Movements, Male, Carrying hod of bricks up a ladder	OS 5	14
Plate 406 Movements, Female, Two models, 8 pouring bucket of water over 1	OS 5	14
Plate 407 Movements, Female, Two models, 8 pouring bucket of water over 1	OS 5	14
Plate 410 Movements, Female, Stepping out of bath-tub, sitting down, wiping feet	OS 5	14
Plate 412 Movements, Female, Washing, wiping face, and turning	OS 5	14
Plate 413 Movements, Female, Pouring water in basin and washing face	OS 5	15
Plate 414 Movements, Female, Wiping body with towel	OS 5	15
Plate 415 Movements, Female, Toilet; preparing to put on clothing	OS 5	15
Plate 416 Movements, Female, Toilet; putting on dress	OS 5	15
Plate 417 Movements, Female, Toilet; sitting and putting on stockings	OS 5	15

Plate 418 Movements, Female, Toilet; sitting and putting on stockings	OS 6	1
Plate 419 Movements, Female, Toilet; stooping, throwing wrap around shoulders	OS 6	1
Plate 420 Movements, Female, Toilet; rising from chair, and putting on clothing	OS 6	1
Plate 421 Movements, Female, Toilet; throwing handkerchief around shoulders	OS 6	1
Plate 422 Movements, Female, Toilet; putting on shoes, and rising from chair	OS 6	1
Plate 423 Movements, Female, Toilet; putting on boots, and rising from chair	OS 6	2
Plate 424 Movements, Female, Toilet; rising from chair, and putting on shawl	OS 6	2
Plate 426 Movements, Female, Toilet; brushing her hair and walking off	OS 6	2
Plate 427 Movements, Female, Toilet; two models, 1 disrobing 8	OS 6	2
Plate 428 Movements, Female, Toilet; two models, 1 disrobing 8	OS 6	2
Plate 430 Movements, Female, Toilet; taking off clothing	OS 6	3
Plate 431 Movements, Female, Toilet; taking off clothing	OS 6	3
Plate 433 Movements, Female, Wringing clothes	OS 6	3
Plate 434 Movements, Female, Hanging clothes on line	OS 6	3
Plate 435 Movements, Female, Ironing clothes	OS 6	3
Plate 439 Movements, Female, Spreading a rug on the floor	OS 6	4
Plate 441 Movements, Female, Carrying vase and placing it on table	OS 6	4
Plate 442 Movements, Female, Stooping, and rolling a stone on the ground	OS 6	4
Plate 443 Movements, Female, Drinking from a goblet while standing	OS 6	4

Plate 445 Movements, Female, Two models, 8 drinking from water jar on the shoulder of 1	OS 6	4
Plate 446 Movements, Female, Filling pitcher on the ground from water jar	OS 6	5
Plate 447 Movements, Female, Two models, 9 taking water jar from shoulder of 10	OS 6	5
Plate 448 Movements, Female, Two models, 11 descending stairs with goblet meets 10 with bouquet	OS 6	5
Plate 451 Movements, Female, Two models, 8 brings cup of tea, 1 takes cup and drinks	OS 6	5
Plate 453 Movements, Female, Two models, 8 kneels, drinks from water jar in hands of 1, and both walk off	OS 6	5
Plate 454 Movements, Female, Taking 12-lb. basket from head and placing it on the ground	OS 6	6
Plate 457 Movements, Female, Stepping on chair, and reaching up	OS 6	6
Plate 458 Movements, Female, Lifting handfuls of hay, turning, throwing it down	OS 6	6
Plate 459 Movements, Female, Stepping on chair, reaching up, and descending	OS 6	6
Plate 461 Movements, Female, Opening a parasol, and turning around	OS 6	6
Plate 462 Movements, Female, Pouring libation on ground, drinking from goblet	OS 6	7
Plate 463 Movements, Female, Reaching up, stooping, and turning around	OS 6	7
Plate 467 Movements, Male, Child, walking	OS 6	7
Plate 468 Movements, Male, Child, walking	OS 6	7
Plate 469 Movements, Female, Child, running	OS 6	7
Plate 470 Movements, Male, Child, 70 N, running after a man	OS 6	8
Plate 474 Movements, Female, Child, walking up-stairs, kneeling, reaching for vase	OS 6	8

Plate 475 Movements, Female, Child, getting up on chair	OS 6	8
Plate 476 Movements, Female, Child, sitting down on the ground	OS 6	8
Plate 477 Movements, Female, Child, stooping, lifting a goblet, and drinking	OS 6	8
Plate 478 Movements, Female, Child, sprinkling water over some flowers	OS 6	9
Plate 479 Movements, Male, Child, getting up from the ground	OS 6	9
Plate 480 Movements, Female, Child, walking and crawling up-stairs	OS 6	9
Plate 481 Movements, Female, Child, lifting a doll, turning, and walking off	OS 6	9
Plate 483 Movements, Female, A, lifting basket; B, running, waving handkerchief	OS 6	9
Plate 484 Movements, Female, A, sweeping; B, dusting a room	OS 6	10
Plate 485 Movements, Female, Two models; A 10, standing and filling a goblet; B 11, drinking while lying on the ground	OS 6	10
Plate 486 Movements, Male, A, lawn tennis; B, ascending a step; C, descending a step ; D, ascending a ladder	OS 6	10
Plate 487 Movements, Male, A, ascending a step; B, lifting a handkerchief from the ground ; C, walking ; D, running	OS 6	10
Plate 488 Movements, Male, A, lawn tennis ; B, dumb-bells ; C, walking on hands; D, ascending stairs	OS 6	10
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	OS 6	11
Plate 490 Movements, Male, A, sitting down; B, sitting down; C, sprinkling water; D, stooping for cup and drinking	OS 6	11
Plate 491 Movements, Male, A, hammering at anvil; B, hammering at anvil; C, using hatchet ; D, sawing a board	OS 6	11
Plate 492 Movements, Male, A 103, rowing; B 96, rowing	OS 6	11
Plate 494 Movements, Female, Miscellaneous phases of the toilet	OS 6	11

Plate 495 Movements, Female, Miscellaneous phases of the toilet	OS 6	12
Plate 496 Movements, Female, Miscellaneous phases of the toilet	OS 6	12
Plate 497 Movements, Female, Miscellaneous phases of the toilet	OS 6	12
Plate 498 Movements, Female, Miscellaneous phases of the toilet	OS 6	12
Plate 500 Movements, Female, Various movements with water jar	OS 6	12
Plate 501 Movements, Female, Miscellaneous,-- stooping, kneeling, etc	OS 6	13
Plate 502 Movements, Female, Miscellaneous,-- stooping, kneeling, etc	OS 6	13
Plate 503 Movements, Female, Miscellaneous,-- stooping, etc	OS 6	13
Plate 504 Movements, Female, Ascending and descending stairs	OS 6	13
Plate 505 Movements, Male, Bricklaying	OS 6	13
Plate 506 Movements, Male, Bricklaying	OS 6	14
Plate 507 Movements, Male, Carpentering	OS 6	14
Plate 508 Movements, Male, Shoeing a horse	OS 6	14
Plate 509 Movements, Male, Shoeing a horse	OS 6	14
Plate 510 Movements, Male, Contortions on the ground	OS 6	14
Plate 512 Movements, Male, Contortions on rings	OS 6	15
Plate 513 Movements, Female, Getting on and off table	OS 6	15
Plate 514 Movements, Female, Feeding a dog	OS 6	15
Plate 515 Movements, Female, Ascending and descending stairs, etc	OS 6	15
Plate 516 Movements, Female, Miscellaneous movements with a water jar	OS 6	15
Plate 517 Movements, Female, Miscellaneous movements with a water jar	OS 7	1
Plate 518 Movements, Female, Sitting down, rising, etc	OS 7	1

Plate 519 Movements, Male, A, throwing disk; B, ascending step; C, walking	OS 7	1
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	OS 7	1
Plate 521 Movements, Male, A, walking; B, ascending step; C, throwing disk; D, using shovel; E, using pick; F, using pick	OS 7	1
Plate 522 Movements, Male, A 97, jumping; B 98, hand-spring; C 98, somersault; D 99, somersault; E 99, spring over man's back	OS 7	2
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	OS 7	2
Plate 524 Movements, Female, A, throwing water from bucket; B, descending step; C, ascending step; D, lawn tennis .	OS 7	2
Plate 525 Movements, Female, A, descending step; B, ascending step; C, descending step; D, ascending step; E, waving handkerchief	OS 7	2
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	OS 7	2
Plate 527 Movements, Female, A, B, C ; 1, spanking child 104	OS 7	3
Plate 528 Movements, Female, A, B, C ; 1, carrying child 104 ; D, walking with child 104, hand in hand; E, running with child 104, hand in hand	OS 7	3
Plate 529 Movements, Male, Various poses	OS 7	3
Plate 530 Movements, Male, Various poses	OS 7	3
Plate 531 Movements, Female, Various poses	OS 7	3
Plate 532 Movements, Movement of the hand; drawing a circle	OS 7	4
Plate 533 Movements, Movement of the hand; clasping hands	OS 7	4
Plate 534 Movements, Movement of the hand; lifting a ball	OS 7	4
Plate 535 Movements, Movement of the hand; beating time	OS 7	4

Plate 536 Movements, Movement of the hand; hands changing pencil	OS 7	4
Plate 537 Movements, Male, Single amputation of leg; hopping with crutches	OS 7	5
Plate 538 Movements, Male, Double amputation of thighs; boy; A, moving forward; B, getting on chair; C, down from chair	OS 7	5
Plate 539 Movements, Male, Infantile paralysis; child, walking on hands and feet	OS 7	5
Plate 540 Movements, Male, A, bow-legs; boy; B, spinal caries; girl, walking	OS 7	5
Plate 541 Movements, Female, Multiple cerebro-spinal sclerosis (choreic); walking	OS 7	5
Plate 542 Movements, Female, Multiple cerebro-spinal sclerosis walking	OS 7	6
Plate 543 Movements, Female, Spastic gait (hysterical); walking	OS 7	6
Plate 544 Movements, Female, Artificially-induced convulsions ; A, B, C, while lying	OS 7	6
Plate 545 Movements, Female, Artificially-induced convulsions ; A, B, while sitting	OS 7	6
Plate 546 Movements, Male, Locomotor ataxia; walking	OS 7	6
Plate 547 Movements, Male, Hemiplegia; walking with crutch	OS 7	7
Plate 548 Movements, Male, Lateral sclerosis ; A, B, walking	OS 7	7
Plate 549 Movements, Male, Epilepsy; walking	OS 7	7
Plate 550 Movements, Male, Locomotor ataxia; walking; A, arms down; B, arms up	OS 7	7
Plate 552 Movements, Male, Hemiplegi ; walking with cane	OS 7	7
Plate 553 Movements, Male, After traumatism of head; walking	OS 7	8
Plate 555 Movements, Male, Muscular atrophy of legs; adult; A, B, walking	OS 7	8
Plate 556 Movements, Male, Local chorea; A, B, while lying	OS 7	8

Plate 557 Movements, Male, Local chorea; A, B, C, while standing	OS 7	8
Plate 558 Movements, Male, Paraplegia; partial; walking	OS 7	8
Plate 559 Movements, Male, Disseminated sclerosis; walking with cane	OS 7	9
Plate 560 Movements, Male, Locomotor ataxia; walking	OS 7	9
Plate 561 Movements, Male, Hydrocephalus; walking	OS 7	9
Plate 562 Movements, Male, Lateral curvature of spine; walking	OS 7	9
Plate 564 Animals and Movements, Horses, Hauling; broken log chain; dark-gray Bel. horse Dusel	OS 7	9
Plate 565 Animals and Movements, Horses, Hauling; dark-gray Bel. horse Dusel	OS 7	10
Plate 566 Animals and Movements, Horses, Hauling; dark-gray Bel. horse Dusel	OS 7	10
Plate 567 Animals and Movements, Horses, Hauling; dark-gray Bel. horse Dusel, Billy	OS 7	10
Plate 568 Animals and Movements, Horses, Hauling; dark-gray Bel. horse Dusel, Billy	OS 7	10
Plate 569 Animals and Movements, Horses, Hauling; dark-gray Bel. horse Dusel, Hansel	OS 7	10
Plate 570 Animals and Movements, Horses, Hauling; dark-gray Bel. horse Dusel, Hansel	OS 7	11
Plate 571 Animals and Movements, Horses, Hauling; light-gray mare, Johnson	OS 7	11
Plate 572 Animals and Movements, Horses, Hauling; head being pulled; light-gray mare, Johnson	OS 7	11
Plate 573 Animals and Movements, Horses, Hauling; man pulling at head; light-gray mare, Johnson	OS 7	11
Plate 574 Animals and Movements, Horses, Walking; free; dark-gray Belgian horse, Hansel	OS 7	11
Plate 575 Animals and Movements, Horses, Walking; free; dark-gray Belgian horse, Hansel	OS 7	12

Plate 576 Animals and Movements, Horses, Walking; free; light-gray horse, Eagle	OS 7	12
Plate 577 Animals and Movements, Horses, Walking; saddle; irregular; white horse, Clinton	OS 7	12
Plate 578 Animals and Movements, Horses, Walking; bareback; dark-gray Belgian horse, Dusel	OS 7	12
Plate 579 Animals and Movements, Horses, Walking; saddle; white horse, Elberon	OS 7	12
Plate 580 Animals and Movements, Horses, Walking; saddle; thoroughbred bay mare, Annie G	OS 7	13
Plate 581 Animals and Movements, Horses, Walking; bareback; rider, 43, nude; light-gray horse, Smith	OS 7	13
Plate 582 Animals and Movements, Horses, Walking; saddle; rider, 43, nude; light-gray horse, Smith	OS 7	13
Plate 583 Animals and Movements, Horses, Walking; saddle; female rider, nude; gray horse, Tom	OS 7	13
Plate 584 Animals and Movements, Horses, Walking; saddle; irregular; brown mare, Beauty	OS 7	13
Plate 585 Animals and Movements, Horses, Walking; sulky; light-gray mare, Katydid	OS 7	14
Plate 586 Animals and Movements, Horses, Walking; sulky; light-gray mare, Katydid	OS 7	14
Plate 587 Animals and Movements, Horses, Walking; sulky; sorrel mare, Nellie Rose	OS 7	14
Plate 588 Animals and Movements, Horses, Walking; sulky; bay horse, Reuben	OS 7	14
Plate 589 Animals and Movements, Horses, Ambling (single foot); bareback; white horse, Clinton	OS 7	14
Plate 590 Animals and Movements, Horses, Ambling (single foot); bareback; rider, 106, nude; white horse, Clinton	OS 7	15
Plate 591 Animals and Movements, Horses, Racking (pacing); saddle; brown horse, Pronto	OS 7	15

Plate 592 Animals and Movements, Horses, Racking (pacing); saddle; brown horse, Pronto	OS 7	15
Plate 593 Animals and Movements, Horses, Racking (pacing); saddle; brown horse, Pronto	OS 7	15
Plate 594 Animals and Movements, Horses, Racking (pacing); sulky; brown horse, Pronto	OS 7	15
Plate 596 Animals and Movements, Horses, Trotting; free; light-gray horse, Eagle	OS 8	1
Plate 597 Animals and Movements, Horses, Trotting; bareback; dark-gray Belgian horse, Hansel	OS 8	1
Plate 598 Animals and Movements, Horses, Trotting; saddle; bay horse, Daisy	OS 8	1
Plate 599 Animals and Movements, Horses, Trotting; bareback; dark-gray Belgian horse, Dusel	OS 8	1
Plate 600 Animals and Movements, Horses, Trotting; bareback; dark-gray Belgian horse, Dusel	OS 8	1
Plate 601 Animals and Movements, Horses, Trotting; saddle; brown mare, Beauty	OS 8	2
Plate 602 Animals and Movements, Horses, Trotting; bareback; rider, 43, nude; light-gray horse, Smith	OS 8	2
Plate 603 Animals and Movements, Horses, Trotting; saddle; rider, 43, nude; light-gray horse Smith	OS 8	2
Plate 604 Animals and Movements, Horses, Trotting; saddle; white horse, Elberon	OS 8	2
Plate 605 Animals and Movements, Horses, Trotting; sulky; bay horse, Reuben	OS 8	2
Plate 606 Animals and Movements, Horses, Trotting; sulky; bay horse, Reuben	OS 8	3
Plate 607 Animals and Movements, Horses, Trotting; sulky; by mare, Lizzie M	OS 8	3
Plate 608 Animals and Movements, Horses, Trotting; sulky; sorrel mare, Flode Holden	OS 8	3

Plate 609 Animals and Movements, Horses, Trotting; sulky; bay mare, Lizzie M	OS 8	3
Plate 610 Animals and Movements, Horses, Trotting; sulky; gray mare, Katydid	OS 8	3
Plate 611 Animals and Movements, Horses, Trotting; sulky; gray mare, Katydid	OS 8	4
Plate 612 Animals and Movements, Horses, Trotting; sulky; bay horse, Dercum	OS 8	4
Plate 613 Animals and Movements, Horses, Trotting; ;sulky; sorrel mare, Nellie Rose	OS 8	4
Plate 614 Animals and Movements, Horses, Trotting; sulky; breaking to gallop; sorrel mare, Flode Holden	OS 8	4
Plate 615 Animals and Movements, Horses, Canter; bareback; dark-gray Belgian horse, Hansel	OS 8	4
Plate 616 Animals and Movements, Horses, Canter; saddle; bay horse, Daisy	OS 8	5
Plate 617 Animals and Movements, Horses, Canter; bareback; rider, 106, nude; white horse, Clinton	OS 8	5
Plate 618 Animals and Movements, Horses, Canter; saddle; brown horse, Middleton	OS 8	5
Plate 619 Animals and Movements, Horses, Canter; saddle; brown horse, Middleton	OS 8	5
Plate 620 Animals and Movements, Horses, Canter; thoroughbred bay mare, Annie G	OS 8	5
Plate 621 Animals and Movements, Horses, Canter; thoroughbred bay mare, Annie G	OS 8	6
Plate 622 Animals and Movements, Horses, Canter; saddle; 44 rider, 43, nude; gray horse, Smith	OS 8	6
Plate 623 Animals and Movements, Horses, Canter; bareback; rider, 43, nude; gray horse, Smith	OS 8	6
Plate 624 Animals and Movements, Horses, Gallop; saddle; bay horse, Daisy	OS 8	6

Plate 625 Animals and Movements, Horses, Gallop; thoroughbred bay horse, Bouquet	OS 8	6
Plate 626 Animals and Movements, Horses, Gallop; thoroughbred bay mare, Annie G	OS 8	7
Plate 627 Animals and Movements, Horses, Gallop; thoroughbred bay mare, Annie G	OS 8	7
Plate 628 Animals and Movements, Horses, Gallop; bay horse, Daisy	OS 8	7
Plate 629 Animals and Movements, Horses, Gallop; bareback; Belgian draught horse, Hansel	OS 8	7
Plate 631 Animals and Movements, Horses, Gallop; saddle; thoroughbred bay horse, Bouquet	OS 8	7
Plate 632 Animals and Movements, Horses, Gallop; saddle; thoroughbred bay horse, Bouquet	OS 8	8
Plate 633 Animals and Movements, Horses, Gallop; saddle; thoroughbred bay horse, Bouquet	OS 8	8
Plate 634 Animals and Movements, Horses, Gallop; saddle; gray horse, Dan	OS 8	8
Plate 635 Animals and Movements, Horses, Gallop; saddle; mare, Pandora	OS 8	8
Plate 636 Animals and Movements, Horses, Jumping a hurdle; saddle; preparing for the leap; bay horse, Daisy	OS 8	8
Plate 637 Animals and Movements, Horses, Jumping a hurdle; saddle; clearing, landing and recovering; bay horse Daisy"	OS 8	9
Plate 638 Animals and Movements, Horses, Jumping a hurdle; saddle; bay horse """"	OS 8	9
Plate 639 Animals and Movements, Horses, Jumping a hurdle; saddle; bay horse, Daisy	OS 8	9
Plate 640 Animals and Movements, Horses, Jumping a hurdle; saddle; bay horse, Daisy	OS 8	9
Plate 641 Animals and Movements, Horses, Jumping a hurdle; saddle; knocking over hurdle and landing; rider 105 ; gray mare Pandora	OS 8	9

Plate 642 Animals and Movements, Horses, Jumping a hurdle; saddle; rider, 105, nude; gray mare; Pandora	OS 8	10
Plate 643 Animals and Movements, Horses, Jumping a hurdle; bareback; clearing and landing; rider, 105, nude gray mare, Pandora	OS 8	10
Plate 644 Animals and Movements, Horses, Jumping a hurdle ; saddle; clearing and landing; knocking over hurdle; rider 105 ; gray mare . Pandora"	OS 8	10
Plate 645 Animals and Movements, Horses, Jumping a hurdle; saddle; clearing and landing; rider 105; gray mare; Pandora	OS 8	10
Plate 646 Animals and Movements, Horses, Jumping a hurdle; saddle; rider, 105, nude; gray mare, Pandora	OS 8	10
Plate 647 Animals and Movements, Horses, Jumping a hurdle; bareback; rider, 105, nude; gray mare, Pandora	OS 8	11
Plate 648 Animals and Movements, Horses, Jumping over three horses; A, B; chestnut horse, Hornet	OS 8	11
Plate 649 Animals and Movements, Horses, A, Hornet, rocking; B, Eagle, rolling barrel, etc	OS 8	11
Plate 650 Animals and Movements, Horses, Walking with a bucket in mouth; light-gray horse, Eagle	OS 8	11
Plate 651 Animals and Movements, Horses, A, bell ringing; B, teeter board; C, military drill	OS 8	11
Plate 652 Animals and Movements, Horses, A, B, C, D, E, horses rearing, etc"	OS 8	12
Plate 653 Animals and Movements, Horses, Walking; saddle; lame, right front foot; horse, Buckskin	OS 8	12
Plate 654 Animals and Movements, Horses, Walking; saddle; lame, right front foot; horse, Buckskin	OS 8	12
Plate 655 Animals and Movements, Horses, Walking; saddle; spavin, right hind leg; horse, Gazelle	OS 8	12
Plate 656 Animals and Movements, Horses, Walking; free; ossification of cartilage, right front foot; horse, Bob	OS 8	12
Plate 657 Animals and Movements, Horses, Rolling a box; pony, Lotta	OS 8	13

Plate 658 Animals and Movements, Domestic Animals, Mule; A, kicking; B, kicking, Ruth	OS 8	13
Plate 659 Animals and Movements, Domestic Animals, Mule; A, B, bucking and kicking, Ruth	OS 8	13
Plate 660 Animals and Movements, Domestic Animals, Mule; miscellaneous performances, Denver	OS 8	13
Plate 661 Animals and Movements, Domestic Animals, Mule; A, B, a refractory animal, Ruth	OS 8	13
Plate 662 Animals and Movements, Domestic Animals, Mule; A, B, refractory animal, Denver	OS 8	14
Plate 663 Animals and Movements, Domestic Animals, Mule; A, B, refractory animal, Denver	OS 8	14
Plate 664 Animals and Movements, Domestic Animals, Mule; various performances; at a table, etc., Denver	OS 8	14
Plate 665 Animals and Movements, Domestic Animals, Ass; walking; bareback; a boy riding, Jennie	OS 8	14
Plate 666 Animals and Movements, Domestic Animals, Ass; walking; saddle; a girl riding, Zoo	OS 8	14
Plate 667 Animals and Movements, Domestic Animals, Ass; waking; saddle; a boy riding, Zoo	OS 8	15
Plate 669 Animals and Movements, Domestic Animals, Ox ; walking	OS 8	15
Plate 670 Animals and Movements, Domestic Animals, Ox ; walking	OS 8	15
Plate 671 Animals and Movements, Domestic Animals, Ox ; walking	OS 8	15
Plate 672 Animals and Movements, Domestic Animals, Ox; trotting	OS 8	15
Plate 673 Animals and Movements, Domestic Animals, Sow; walking	OS 8A	1
Plate 674 Animals and Movements, Domestic Animals, Sow; walking	OS 8A	1

Plate 675 Animals and Movements, Domestic Animals, Sow; trotting	OS 8A	1
Plate 676 Animals and Movements, Domestic Animals, Goat; walking	OS 8A	1
Plate 677 Animals and Movements, Domestic Animals, Goat; walking, in sulky	OS 8A	1
Plate 678 Animals and Movements, Domestic Animals, Goat; trotting, in sulky	OS 8A	2
Plate 679 Animals and Movements, Domestic Animals, Goat; galloping	OS 8A	2
Plate 680 Animals and Movements, Wild Animals and Birds, Orex; galloping	OS 8A	2
Plate 681 Animals and Movements, Wild Animals and Birds, Virginia deer; (no antlers;) buck; walking, startled to a gallop	OS 8A	2
Plate 682 Animals and Movements, Wild Animals and Birds, Fallow deer; buck; A, trotting; B, galloping	OS 8A	2
Plate 683 Animals and Movements, Wild Animals and Birds, Virginia deer; (no antlers;) buck; galloping	OS 8A	2
Plate 684 Animals and Movements, Wild Animals and Birds, Fallow deer; A, buck and doe; B, two does; trotting, galloping	OS 8A	3
Plate 685 Animals and Movements, Wild Animals and Birds, Fallow deer; buck and doe; trotting	OS 8A	3
Plate 686 Animals and Movements, Wild Animals and Birds, Fallow deer; buck and doe; galloping	OS 8A	3
Plate 687 Animals and Movements, Wild Animals and Birds, Fallow deer; buck and group of does; galloping	OS 8A	3
Plate 688 Animals and Movements, Wild Animals and Birds, Fallow deer; buck and group of does; galloping	OS 8A	3
Plate 689 Animals and Movements, Wild Animals and Birds, Fallow deer; A, B, buck, and group of does; galloping	OS 8A	4
Plate 690 Animals and Movements, Wild Animals and Birds, Fallow deer; buck and group of does; various movements	OS 8A	4

Plate 691 Animals and Movements, Wild Animals and Birds, Fallow deer; doe; galloping; and kid; jumping	OS 8A	4
Plate 692 Animals and Movements, Wild Animals and Birds, Elk; trotting	OS 8A	4
Plate 693 Animals and Movements, Wild Animals and Birds, Elk; galloping	OS 8A	4
Plate 694 Animals and Movements, Wild Animals and Birds, Elk; galloping; irregular	OS 8A	5
Plate 695 Animals and Movements, Wild Animals and Birds, Elk; galloping; irregular	OS 8A	5
Plate 696 Animals and Movements, Wild Animals and Birds, Eland; trotting	OS 8A	5
Plate 697 Animals and Movements, Wild Animals and Birds, Antelope; trotting	OS 8A	5
Plate 698 Animals and Movements, Wild Animals and Birds, Antelope; galloping	OS 8A	5
Plate 699 Animals and Movements, Wild Animals and Birds, Buffalo; walking	OS 8A	6
Plate 700 Animals and Movements, Wild Animals and Birds, Buffalo; galloping	OS 8A	6
Plate 701 Animals and Movements, Wild Animals and Birds, Gnu; walking	OS 8A	6
Plate 702 Animals and Movements, Wild Animals and Birds, Gnu; bucking and galloping	OS 8A	6
Plate 704 Animals and Movements, Domestic Animals, Dog; walking; mastiff, Dread	OS 8A	6
Plate 705 Animals and Movements, Domestic Animals, Dog; trotting; mastiff, Dread	OS 8A	7
Plate 706 Animals and Movements, Domestic Animals, "Smith", Trotting	OS 8A	7
Plate 707 Animals and Movements, Domestic Animals, Dog; galloping; mastiff, Dread	OS 8A	7

Plate 708 Animals and Movements, Domestic Animals, Dog; galloping; brown racing hound, Ike	OS 8A	7
Plate 709 Animals and Movements, Domestic Animals, Dog; galloping; white racing hound, Maggie	OS 8A	7
Plate 710 Animals and Movements, Domestic Animals, Dog; galloping; white racing hound, Maggie	OS 8A	8
Plate 711 Animals and Movements, Domestic Animals, Dogs; two, racing; A, B; racing hounds Ike, Maggie	OS 8A	8
Plate 712 Animals and Movements, Domestic Animals, Dog; jumping hurdle; mastiff, Dread	OS 8A	8
Plate 713 Animals and Movements, Domestic Animals, Dog; turning around, etc.; setter, Kate	OS 8A	8
Plate 714 Animals and Movements, Domestic Animals, Dog; aroused by a torpedo; mastiff, Smith	OS 8A	8
Plate 715 Animals and Movements, Domestic Animals, Dogs; three, tugging at a towel Ike, Maggie, etc:	OS 8A	9
Plate 716 Animals and Movements, Domestic Animals, Cat; walking; change to galloping	OS 8A	9
Plate 717 Animals and Movements, Domestic Animals, Cat; trotting; change to galloping	OS 8A	9
Plate 718 Animals and Movements, Domestic Animals, Cat; trotting; change to galloping	OS 8A	9
Plate 719 Animals and Movements, Domestic Animals, Cat; galloping; change to galloping	OS 8A	9
Plate 720 Animals and Movements, Domestic Animals, Cat; galloping; change to galloping	OS 8A	10
Plate 721 Animals and Movements, Wild Animals and Birds, Lion; walking	OS 8A	10
Plate 722 Animals and Movements, Wild Animals and Birds, Lion; walking	OS 8A	10
Plate 723 Animals and Movements, Wild Animals and Birds, Lion; walking and turning around	OS 8A	10

Plate 724 Animals and Movements, Wild Animals and Birds, Lion; walking, turning around	OS 8A	10
Plate 725 Animals and Movements, Wild Animals and Birds, Lion; walking, turning around	OS 8A	11
Plate 726 Animals and Movements, Wild Animals and Birds, Lion and lioness; walking	OS 8A	11
Plate 727 Animals and Movements, Wild Animals and Birds, Lioness; walking; lion; lying down	OS 8A	11
Plate 728 Animals and Movements, Wild Animals and Birds, Lioness; walking; lion; lying down	OS 8A	11
Plate 729 Animals and Movements, Wild Animals and Birds, Tigress; walking	OS 8A	11
Plate 730 Animals and Movements, Wild Animals and Birds, Tigress; turning around	OS 8A	12
Plate 731 Animals and Movements, Wild Animals and Birds, Jaguar; A, walking; B, turning around	OS 8A	12
Plate 732 Animals and Movements, Wild Animals and Birds, Elephant; walking	OS 8A	12
Plate 733 Animals and Movements, Wild Animals and Birds, Elephant; walking	OS 8A	12
Plate 734 Animals and Movements, Wild Animals and Birds, Elephants; two, walking	OS 8A	12
Plate 735 Animals and Movements, Wild Animals and Birds, Elephants; two, walking	OS 8A	13
Plate 736 Animals and Movements, Wild Animals and Birds, Egyptian camel ; racking	OS 8A	13
Plate 737 Animals and Movements, Wild Animals and Birds, Bactrian camel; walking	OS 8A	13
Plate 738 Animals and Movements, Wild Animals and Birds, Bactrian camel; racking	OS 8A	13
Plate 739 Animals and Movements, Wild Animals and Birds, Bactrian camel; galloping	OS 8A	13

Plate 740 Animals and Movements, Wild Animals and Birds, Bactrian camel (young), galloping	OS 8A	14
Plate 741 Animals and Movements, Wild Animals and Birds, Bactrian camel, A, walking; B, racking	OS 8A	14
Plate 742 Animals and Movements, Wild Animals and Birds, Bactrian camel, A, racking; B, galloping	OS 8A	14
Plate 743 Animals and Movements, Wild Animals and Birds, Guanaco; galloping	OS 8A	14
Plate 744 Animals and Movements, Wild Animals and Birds, Raccoon; walking; change to galloping	OS 8A	14
Plate 745 Animals and Movements, Wild Animals and Birds, Raccoon; walking; and turning around	OS 8A	15
Plate 746 Animals and Movements, Wild Animals and Birds, Capybara; walking	OS 8A	15
Plate 747 Animals and Movements, Wild Animals and Birds, Baboon; walking on all-fours	OS 8A	15
Plate 748 Animals and Movements, Wild Animals and Birds, Baboon; walking on all-fours	OS 8A	15
Plate 749 Animals and Movements, Wild Animals and Birds, Baboon; climbing a pole	OS 8A	15
Plate 750 Animals and Movements, Wild Animals and Birds, Sloth; walking suspended on a horizontal pole	OS 8A	16
Plate 751 Animals and Movements, Wild Animals and Birds, Kangaroo; walking on all-fours; change to jumping	OS 8A	16
Plate 752 Animals and Movements, Wild Animals and Birds, Kangaroo; jumping	OS 8A	16
Plate 753 Animals and Movements, Wild Animals and Birds, Kangaroo; jumping	OS 8A	16
Plate 754 Animals and Movements, Wild Animals and Birds, Kangaroo; jumping	OS 8A	16
Plate 755 Animals and Movements, Wild Animals and Birds, Pigeon; flying	OS 8A	17

Plate 756 Animals and Movements, Wild Animals and Birds, Pigeon; flying	OS 8A	17
Plate 757 Animals and Movements, Wild Animals and Birds, Pigeon; flying	OS 8A	17
Plate 758 Animals and Movements, Wild Animals and Birds, Cockatoo; flying	OS 8A	17
Plate 759 Animals and Movements, Wild Animals and Birds, Cockatoo; flying	OS 8A	17
Plate 760 Animals and Movements, Wild Animals and Birds, Cockatoo; flying	OS 8A	18
Plate 761 Animals and Movements, Wild Animals and Birds, Cockatoo; flying	OS 8A	18
Plate 762 Animals and Movements, Wild Animals and Birds, Cockatoo; flying	OS 8A	18
Plate 763 Animals and Movements, Wild Animals and Birds, Red-tailed hawk; flying	OS 8A	18
Plate 764 Animals and Movements, Wild Animals and Birds, Fish hawk; flying	OS 8A	18
Plate 765 Animals and Movements, Wild Animals and Birds, Vulture; flying	OS 8A	19
Plate 766 Animals and Movements, Wild Animals and Birds, Vulture; flying	OS 8A	19
Plate 767 Animals and Movements, Wild Animals and Birds, Vulture; flying	OS 8A	19
Plate 768 Animals and Movements, Wild Animals and Birds, Vulture; flying	OS 8A	19
Plate 769 Animals and Movements, Wild Animals and Birds, American eagle; flying	OS 8A	19
Plate 770 Animals and Movements, Wild Animals and Birds, American eagle; flying near the ground	OS 8A	20
Plate 771 Animals and Movements, Wild Animals and Birds, American eagle; flying near the ground	OS 8A	20

Plate 772 Animals and Movements, Wild Animals and Birds, Ostrich; walking	OS 8A	20
Plate 773 Animals and Movements, Wild Animals and Birds, Ostrich; running	OS 8A	20
Plate 774 Animals and Movements, Wild Animals and Birds, Adjutant; walking	OS 8A	20
Plate 775 Animals and Movements, Wild Animals and Birds, Adjutant; flying run	OS 8A	21
Plate 776 Animals and Movements, Wild Animals and Birds, Storks; swans, etc., A, B, C	OS 8A	21
Plate 777 Animals and Movements, Wild Animals and Birds, Storks; etc., A, B, C, D	OS 8A	21
Plate 778 Animals and Movements, Wild Animals and Birds, Storks; etc., A, B, C	OS 8A	21
Plate 779 Animals and Movements, Wild Animals and Birds, Storks; swans, etc	OS 8A	21
Plate 780 Animals and Movements, Wild Animals and Birds, Storks; swans, etc	OS 8A	22
Plate 781 Animals and Movements, Wild Animals and Birds, Chickens; scared by torpedo	OS 8A	22

PHOTOGRAPHS	Box	Folder
Animal Locomotion Study Original Gelatin Negatives		
Plate 65 Movements, Male, Running	60	
Plate 68 Movements, Male, Running	60	
Plate 76 Movements, Male, Ascending incline	60	
Plate 153 Movements, Male, Jumping; running straight high jump (shoes)	60	
Plate 179 Movements, Female, Stepping on and over a rock, a basket on head, right hand raised	60	
Plate 181 Movements, Female, Stepping over a fence	60	

Plate 234 Movements, Female, Lifting and emptying basin of water and turning	OS 60	
Plate 250 Movements, Female, Rising from chair stooping and lifting handkerchief	60	
Plate 504 Movements, Female, Ascending and descending stairs	60	
Plate 506 Movements, Male, Bricklaying	60	
Plate 511 Movements, Male, Contortions on the ground	60	
Plate 512 Movements, Male, Contortions on rings	60	
Plate 516 Movements, Female, Miscellaneous movements with a water jar	60	
Plate 518 Movements, Female, Sitting down, rising, etc	60	
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	60	
Plate 524 Movements, Female, A, throwing water from bucket; B, descending step; C, ascending step; D, lawn tennis .	60	
Plate 529 Movements, Male, Various poses	60	
Plate 542 Movements, Female, Multiple cerebro-spinal sclerosis walking	60	
Plate 547 Movements, Male, Hemiplegia; walking with crutch	60	
Plate 622 Animals and Movements, Horses, Canter; saddle; 44 rider, 43, nude; gray horse, Smith	60	
Plate 628 Animals and Movements, Horses, Gallop; bay horse, Daisy	60	
Animal Locomotion Study Copy Negatives		
Plate 44 Movements, male, walking and taking off a hat	61	8
Plate 55 Movements, female, walking and turning around, action of aversion	61	9
Plate 159 Movements, male, jumping, running broad jump	61	10

Plate 165 Movements, male, jumping and pole-vaulting	61	11
Plate 198 Movements, female, curtsying	61	12
Plate 234 Movements, female, lifting and emptying a basin of water and turning	61	13
Plate 245 Movements, female, two women turning around and sitting on the ground	61	14
Plate 257 Movements, male, lying on the ground	61	15
Plate 286 Movements, male, baseball, throwing	61	16
Plate 363 Movements, male, running somersault	61	17
Plate 372 Movements, male, acrobat, horizontal "press up"	61	18
Plate 416 Movements, female, toilet, putting on dress	61	19
Plate 424 Movements, female, toilet, rising from chair and putting on shawl	61	20
Plate 457 Movements, female, stepping on a chair and reaching up	61	21
Plate 467 Movements, male, child walking	61	22
Plate 481 Movements, female, child lifting a doll, turning and walking off	61	23
Plate 490 Movements, male, A,B: Sitting down. C: Sprinkling water. D: Stooping for cup and drinking.	61	24
Plate 495 Movements, female, miscellaneous phases of the toilet	61	25
Plate 519 Movements, male, A: Throwing a disk. B: Ascending a step. C: Walking.	61	26
Plate 527 Movements, female, A-C: Spanking a child.	61	27
Plate 535 Movement of the hand, clasping hands	61	28
Plate 541 Movements, female, spastic walking	61	29
Plate 574 Animals and Movements, horses, "Hansel" walking, free	61	30
Plate 591 Animals and Movements, horses, "Pronto" pacing, saddled	61	31

Plate 605 Animals and Movements, horses, "Reuben" trotting, harnessed to sulky	61	32
Plate 609 Animals and Movements, horses, "Lizzie M." trotting, harnessed to sulky	61	33
Plate 624 Animals and Movements, horses, "Daisy" galloping, saddled	61	34
Plate 625 Animals and Movements, horses, "Bouquet" galloping	61	35
Plate 627 Animals and Movements, horses, "Annie G." galloping	61	36
Plate 632 Animals and Movements, horses, "Bouquet" galloping, saddled	61	37
Plate 636 Animals and Movements, horses, "Daisy" jumping a hurdle, saddled, preparing for the leap	61	38
Plate 637 Animals and Movements, horses, "Daisy" jumping a hurdle, saddled, clearing and landing and recovering	61	39
Plate 642 Animals and Movements, horses, "Pandora" jumping a hurdle, saddled; rider nude	61	40
Plate 646 Animals and Movements, horses, "Pandora" jumping a hurdle, saddled; rider nude	61	41
Plate 699 Animals and Movements, wild animals and birds, buffalo walking	61	42
Plate 719 Animals and Movements, domestic animals, cat galloping	61	43
Plate 730 Animals and Movements, wild animals and birds, tigress walking and turning around	61	44
Plate 731 Animals and Movements, wild animals and birds, Jaguar. A: Walking. B: Turning around.	61	45
Plate 759 Animals and Movements, wild animals and birds, cockatoo flying	61	46
Plate 762 Animals and Movements, wild animals and birds, cockatoo flying	61	47
Plate 763 Animals and Movements, wild animals and bird, red-tailed hawk flying	61	48

Plate 770 Animals and Movements, wild animals and birds, American eagle flying near the ground	61	49
Plate 771 Animals and Movements, wild animals and birds, American eagle flying near the ground	61	50
Copy Negatives (Other)		
Apparatus	61	1
Back of camera showing electromagnetically released	61	2
Camera in Penn's collection	61	3
Camera shed and equipment	61	4
Photo team	61	5
Plaque hanging on Library at Kingston-on-Thames	61	6
Plate holder and lens	61	7
Photographs of Muybridge and His Project and Copy Photographs		
"Animals in Motion"	61	51
Equipment	61	52
Miscellaneous	61	53
Muybridge	61	54
Photo Team	61	55
CORRESPONDENCE CONTEMPORARY WITH THE STUDY		
1887-1901	62	6
MISCELLANEOUS DOCUMENTATION		
Advertisement for Burlington Mills, 1948	62	7
Advertisement for Zoetrope	62	8
Apparatus	62	9

Panoramic San Francisco, 1877	62	10
Program, "Ninth Entertainment of the Young Men's Society," 1870	62	11
Receipts and Certificates, 1888-1899	62	12
Ticket, "Lecture Course of the Scientific Society," 1885	62	13
CAMERAS AND RELATED APPARATUS		
Camera Back, for a View Camera. "Folmer and Schwing division, Eastman Kodak and Co." L: 15", w: 2.5", h: 15"	OS 73	
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"	OS 72	
Camera Back, Sliding, fits Copy Camera. "Manufactured by The Anthony and Scovill Co." L: 29", w: 1.75". H: 13.5"	OS 72	
Camera, race track #21. L: 22", w: 5.75", h: 5.8".	64	
Contact printing frame, missing glass insert. L: 7", w: 1", h: 9"	71	
Contact printing frame, with glass insert. Scovill. L: 7", w: 1", h: 9"	71	
Contact printing frame, with glass insert. L: 10", w: 1.25", h: 12"	71	
Contact printing frame, with glass insert. L: 18.5", w: 1.5", h: 22.75"	OS 73	
Copy Camera, with part of bellows extended. L: 28", w: 12.75", h: 15.5"	OS 70	
Cropping masks, nesting. L: 18", w: 0.25", h: 18"	OS 73	
Dry Plate Holder. L: 16.5", w: 1", h: 21"	OS 73	
Film holder, 40.5 x 6 "	OS 74	
Frame. L: 9.75", w: 0.5", h: 12"	OS 73	
Lens board #12. L: 7.45", w: 4.6", h: 0.6"	66	
Lens board, for copy camera. "Voigtl. Collinear 7 7/8". L: 11", w: 0.5", h: 11"	71	
Lens board, with flange. L: 4.5", w: 0.1", h: 4.5"	68	

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

ZOETROPE**Box****Folder**

Zoetrope, 5 component pieces, manufactured by Milton Bradley.

63

Zoetrope strips, label and illustration

OS 75

PUBLISHED MATERIAL**Box****Folder**

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

OS 1

1

Muybridge and/or Motion Pictures, 1885-1890

62

15

Muybridge and/or Motion Pictures, 1912-1941

62

16

Eadweard Muybridge Collection

UPT 50 M993

Muybridge and/or Motion Pictures, 1946-1981	62	17
Muybridge and/or Motion Pictures, Undated	62	14
Muybridge and/or Motion Pictures, University Publications, 1885-1888	62	18
Muybridge's Strings, film by Michael Fukushima, National Film Board of Canada (stored on a DVD), 2011	62	19