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## **BRA**

A collection of 51 plate glass negatives illustrating astronomical instrument making of the John Alfred Brashear Co of Pittsburgh, Pennsylvania and the J W Fecker Co.

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A collection of 51 plate glass negatives illustrating astronomical instrument making of the John Alfred Brashear Co of Pittsburgh, Pennsylvania and the J W Fecker Co, successors to Brashear (1840-1920) and his assistant, James B McDowell (d.1926)

The Science Museum is most grateful to Mr Barton S Fried of Plymouth Meeting, Pennsylvania for preparing the entries on this list.

The glass negatives are not available for consultation. Prints have been made from them by the Science Museum's Photo Studio and the reference numbers 59/91 to 110/91 are Museum negative numbers. The prints may be seen in the Science Museum Library; they are housed at MS 547 and are separately inventoried (1994-117). Copy prints, quoting these negative numbers, may be ordered through the Museum's Photo Library.

|       |           |  |
|-------|-----------|--|
| 59/91 | 189-      | 4" portable equatorial refractor, definitely Brashear; photo taken in the Perrysville Avenue shop  |
| 60/91 | 188-/189- | 3½" or 4" portable equatorial, earlier style, definitely Brashear; photo taken in Perrysville Avenue shop  |
| 61/91 | -         | Star spectroscope, possibly late Brashear but likely early Fecker  |
| 62/91 | -         | Dividing or ruling engine, with micrometer readouts; very likely a Brashear-built machine. Used for cutting large gears and setting circles. Photo taken in Perrysville Avenue shop      |
| 63/91 | -         | Prism  |
| 64/91 | -         | [--- as 62/91 ---]   |
| 65/91 | 192-/193- | Fecker pier-mounted equatorial for 4"-6" refractors. Slow-motion hand controls and likely used with a weight-driven clock drive housed in a pier. Photo taken in Perrysville Avenue shop |
| 66/91 | ditto     | --- as above --- (showing mounted refractor)   |
| 67/91 | -         | Fecker spotting scope  |
| 68/91 | 188-/189- | [--- as 60/91 ---]   |
| 69/91 | -         | [--- as 61/91 ---]   |

|       |           |   |
|-------|-----------|---|
| 70/91 | 193-/194- | Fecker large reflector for observatory mounting   |
| 71/91 | -         | [--- as 61/91 ---]  |
| 72/91 | -         | Pitch lap being produced on glass tool for mirror grinding  |
| 73/91 | -         | Large pitch lap   |
| 74/91 | 188-/189- | Early mount by Brashear. [ <u>See</u> 60/91]  |
| 75/91 | -         | [--- as 61/91 ---]  |
| 76/91 | -         | Fecker ceolostat with mounted lens and two moving mirrors   |
| 77/91 | -         | [--- as above ---]  |
| 78/91 | -         | Fecker reflector  |
| 79/91 | -         | Drive assembly for large telescope  |
| 80/91 | -         | Fecker stereo or blink comparator for measuring glass plate images with micrometer  |
| 81/91 | -         | [--- as above ---]  |
| 82/91 | -         | Fecker astrograph and refractor mount   |
| 83/91 | -         | Mount for above   |
| 84/91 | -         | Fecker astrographs  |
| 85/91 | -         | [--- as 78/91 ---]  |
| 86/91 | -         | Fecker portable zenith tube assembly with micrometer  |
| 87/91 | 1933      | Fecker astrograph and astrographic bent mount   |
| 88/91 | 193-      | Fecker spotting scope with revolving eye-piece holder on Brashear models portable field tripod. Tripod was also used on earlier |
| 89/91 | 193-      | Fecker wide field refractor   |
| 90/91 | 193-      | [--- as above ---]  |
| 91/91 | 193-      | Small Fecker observatory refractor  |
| 92/91 | -         | Fecker astrographic camera  |

|          |      |   |
|----------|------|---|
| 93/91    | -    | Fecker astrographic camera, wide field  |
| 94/91    | -    | Fecker Cassegrain-style relector  |
| 95/91    | -    | [--- as 93/91 ---]  |
| 96/91    | -    | Fecker chronograph  |
| 97/91    | -    | [--- as above ---]  |
| 98/91    | -    | Fecker wide field camera  |
| 99/91    | 1937 | Fecker 4" or 5" student observatory model                                       |
| 100/91   | 193- | Fecker portable refractor   |
| 101/91   | 1935 | Fecker large star spectroscope  |
| 102/91   | 1933 | Fecker ?  |
| 103/91   | -    | Fecker ceolostst assembly   |
| 104/91   | 1933 | Fecker astrograph   |
| 105/91   | -    | Large refractor, end view   |
| 106/91   | -    | Large refractor, possibly for Flower Observatory,<br>University of Pennsylvania |
| 107/91 ) |      |   |
| 108/91 ) | -    | Fecker medium Cassegrain reflector  |
| 109/91 ) |      |   |
| 110/91   | -    | Large Fecker astrograph   |

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