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(54) **METHOD AND APPARATUS FOR SINGLE IMAGE 3D VISION GUIDED ROBOTICS**

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(58) **Field of Classification Search** 348/287, 348/291, 154, 190, 42, 94, 552, 191; 901/14, 901/17, 46–47, 6; 414/730, 737; 382/154, 382/103, 106, 276, 293, 295, 298; 700/245–246, 700/257–259, 253, 279; 29/407.04, 714, 29/407.1, 702, 720, 218; 318/568.15, 568.13, 318/568.16, 640
See application file for complete search history.

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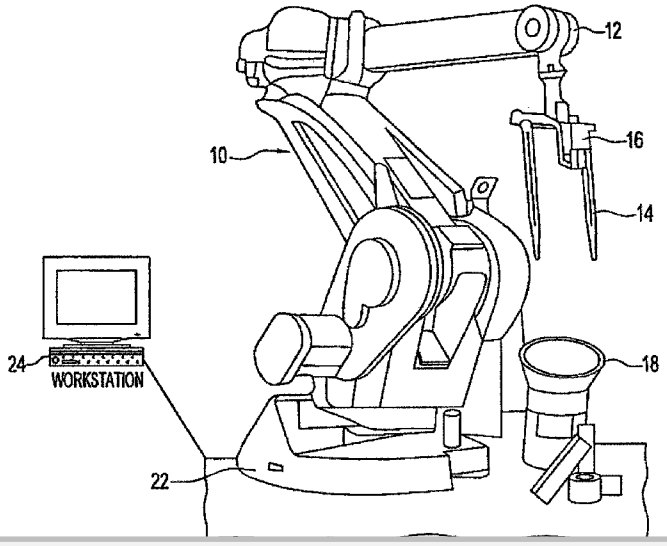
(57) **ABSTRACT**

A method of three-dimensional object location and guidance to allow robotic manipulation of an object with variable position and orientation using a sensor array which is a collection of one or more sensors capable of forming a single image.

28 Claims, 7 Drawing Sheets



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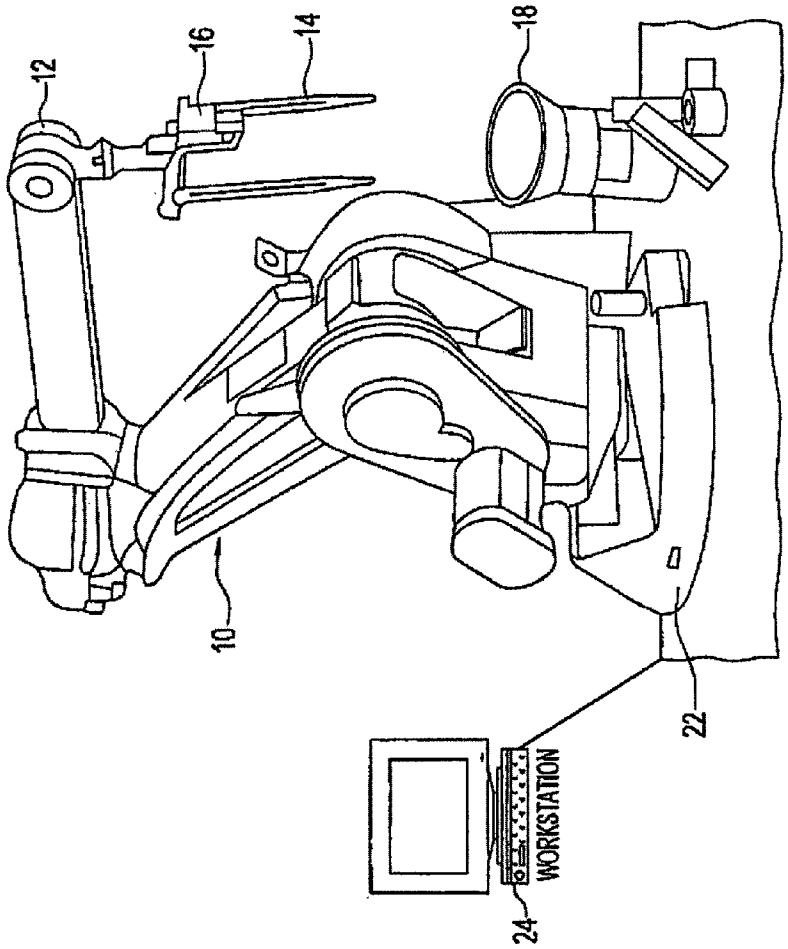

FIG. 1

DOCKET ALARM

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