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POSITIONING DEVICE FOR MEDICAL **DEVICES**

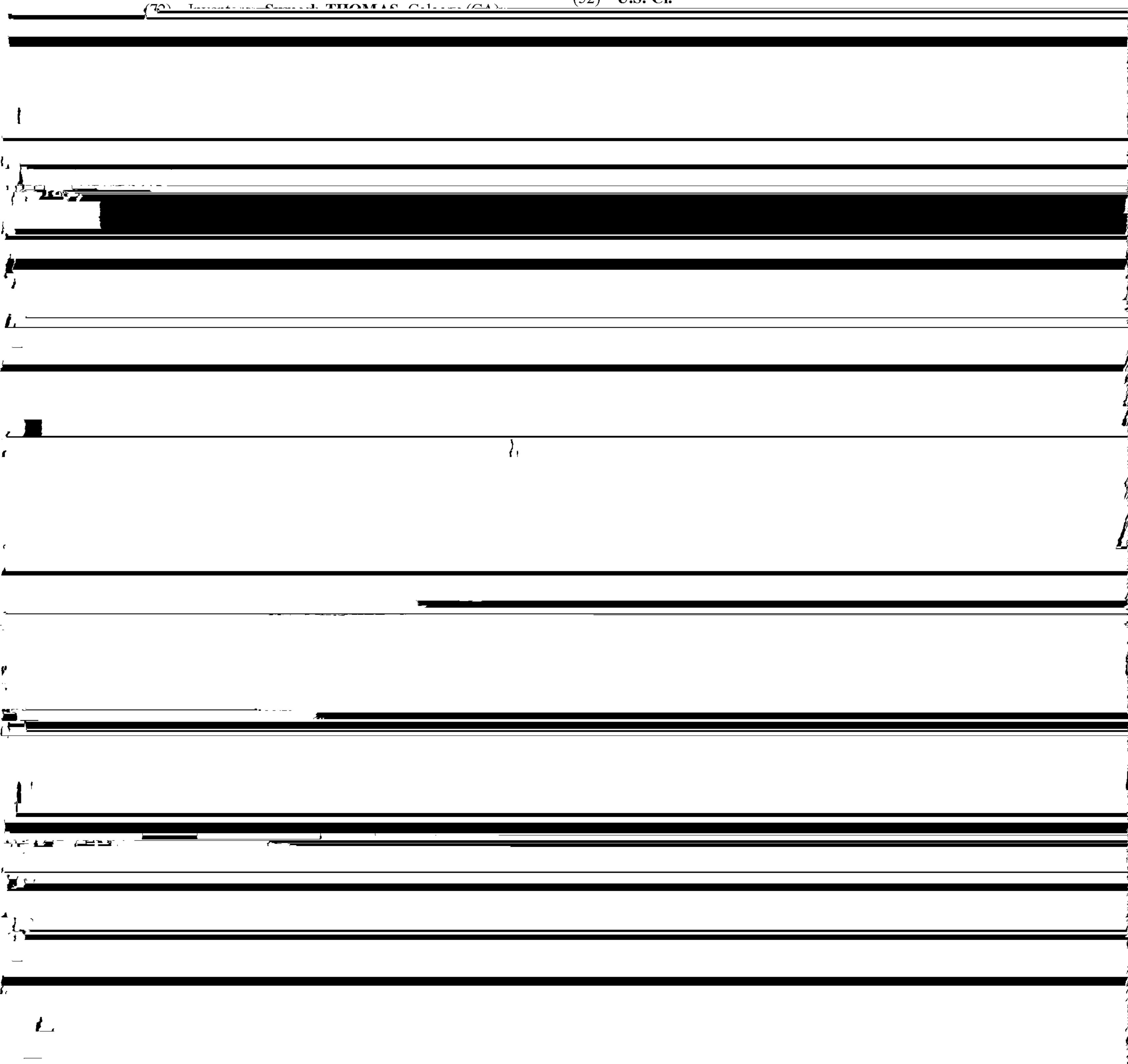
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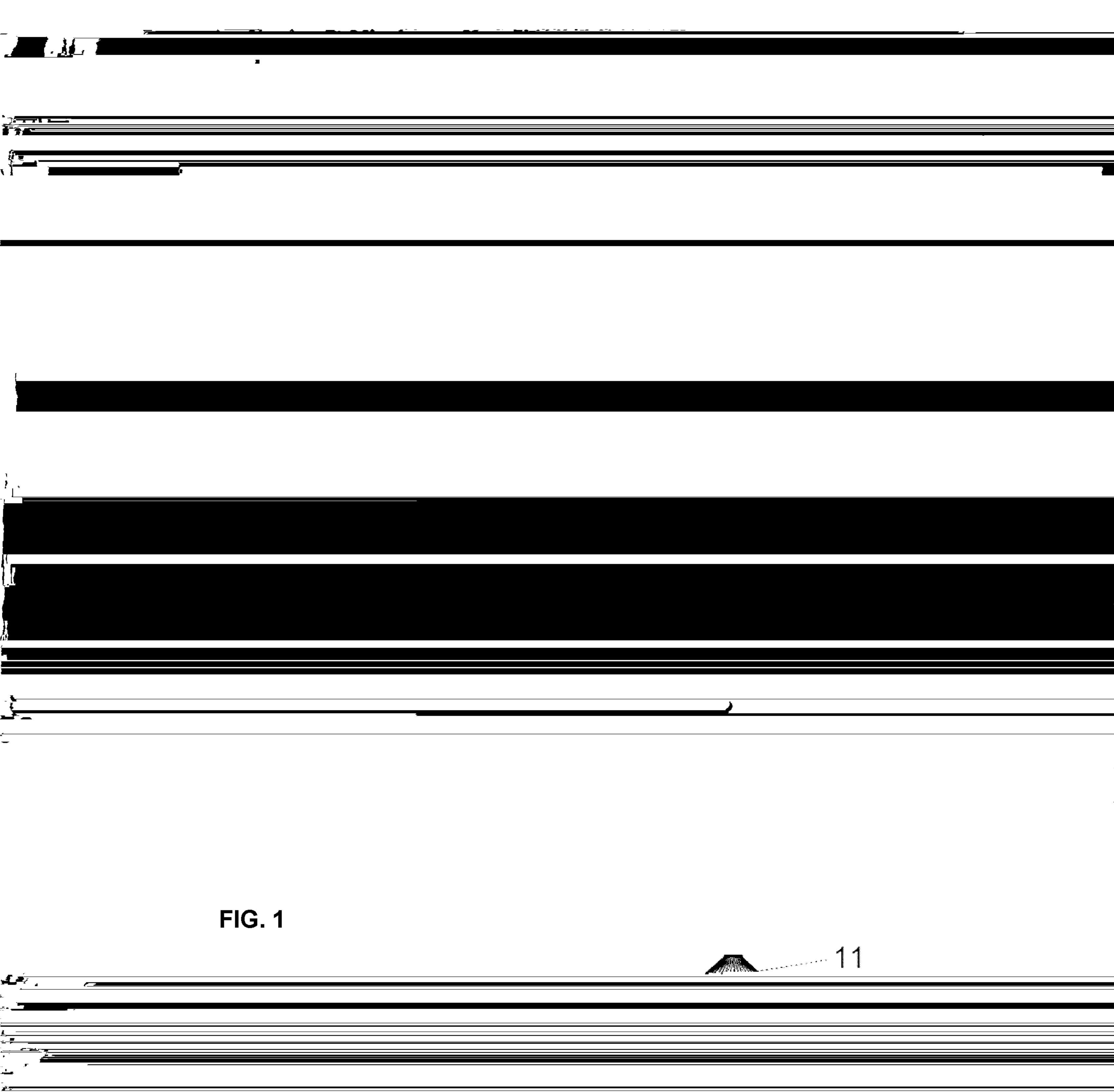
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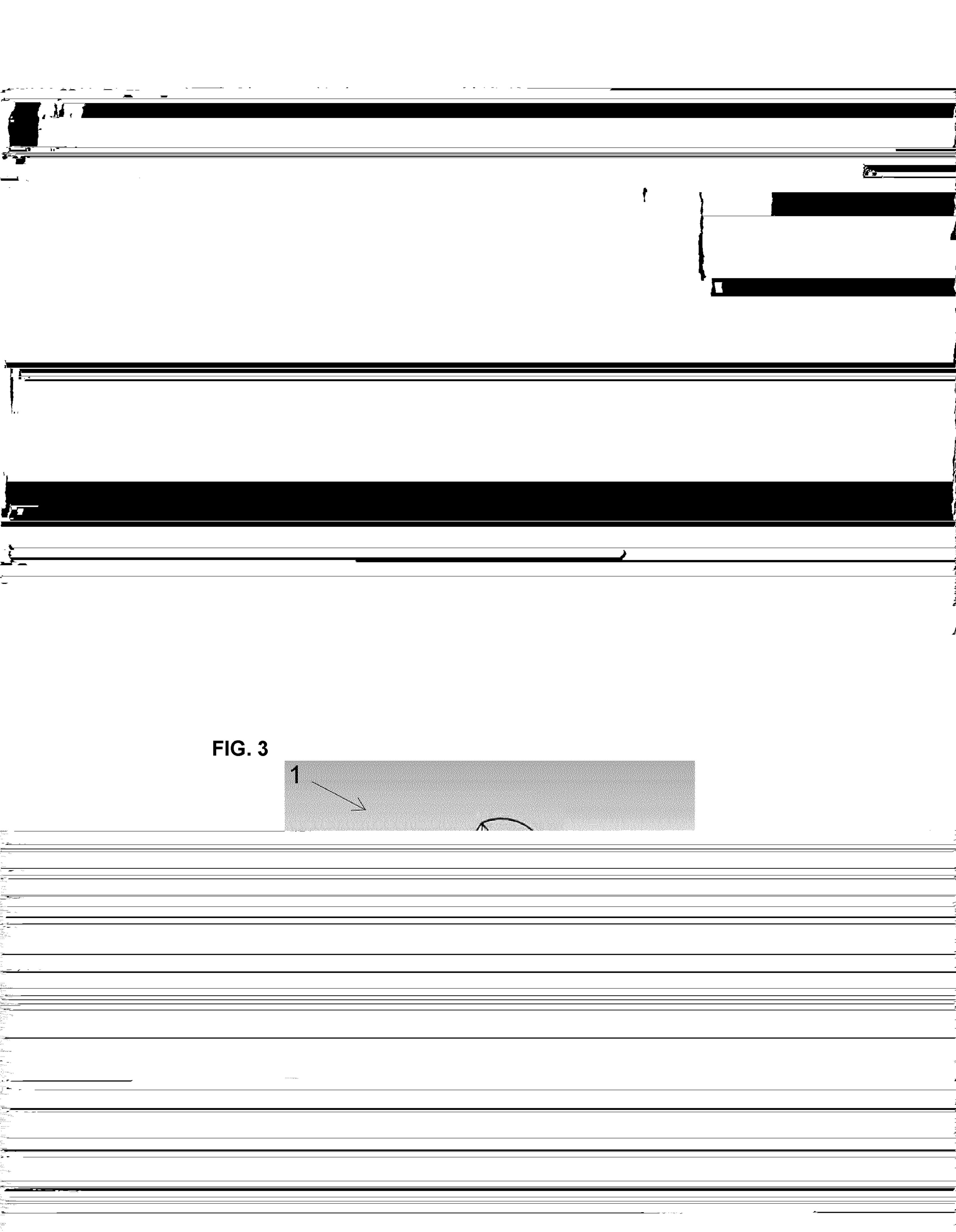
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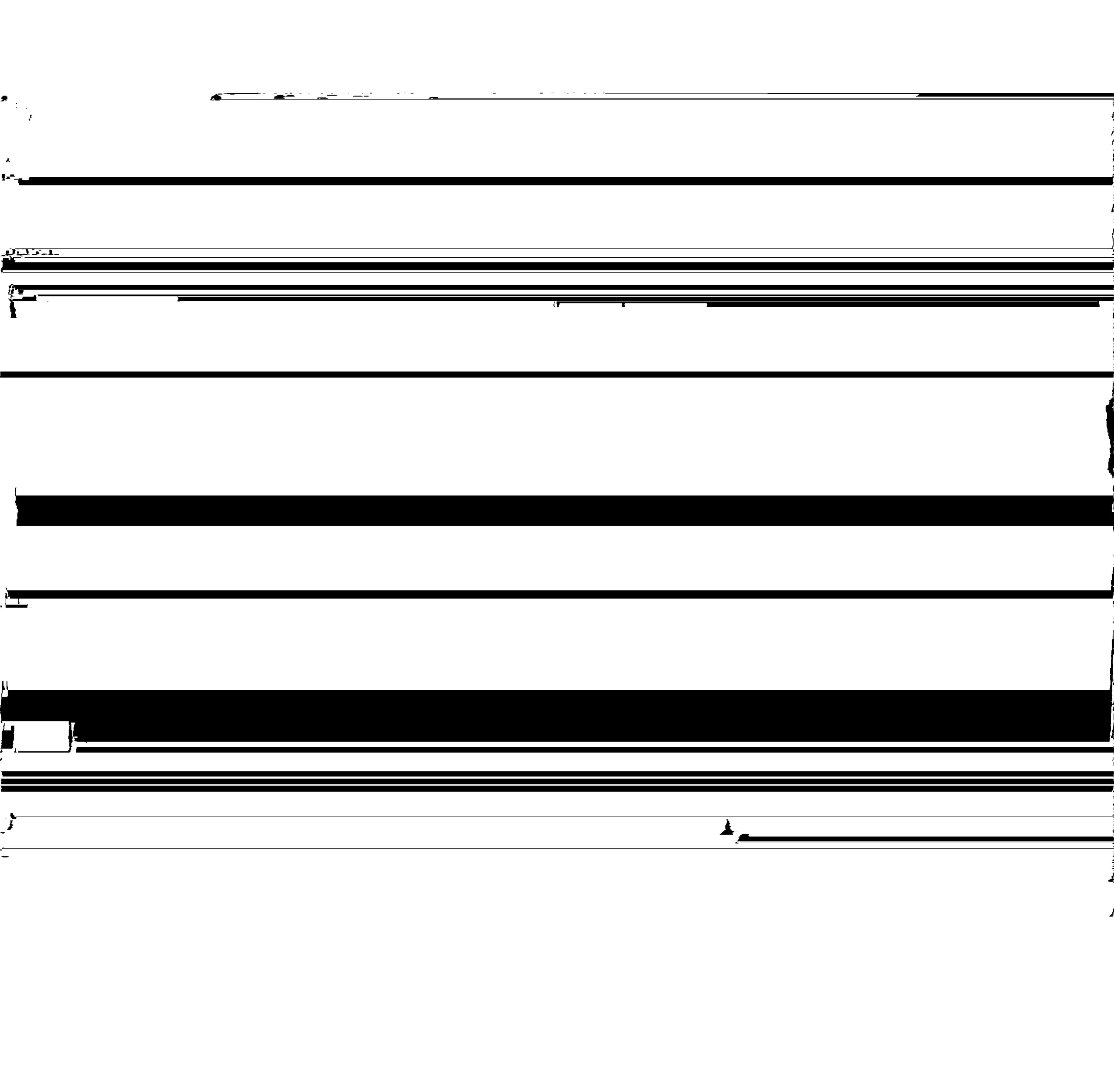
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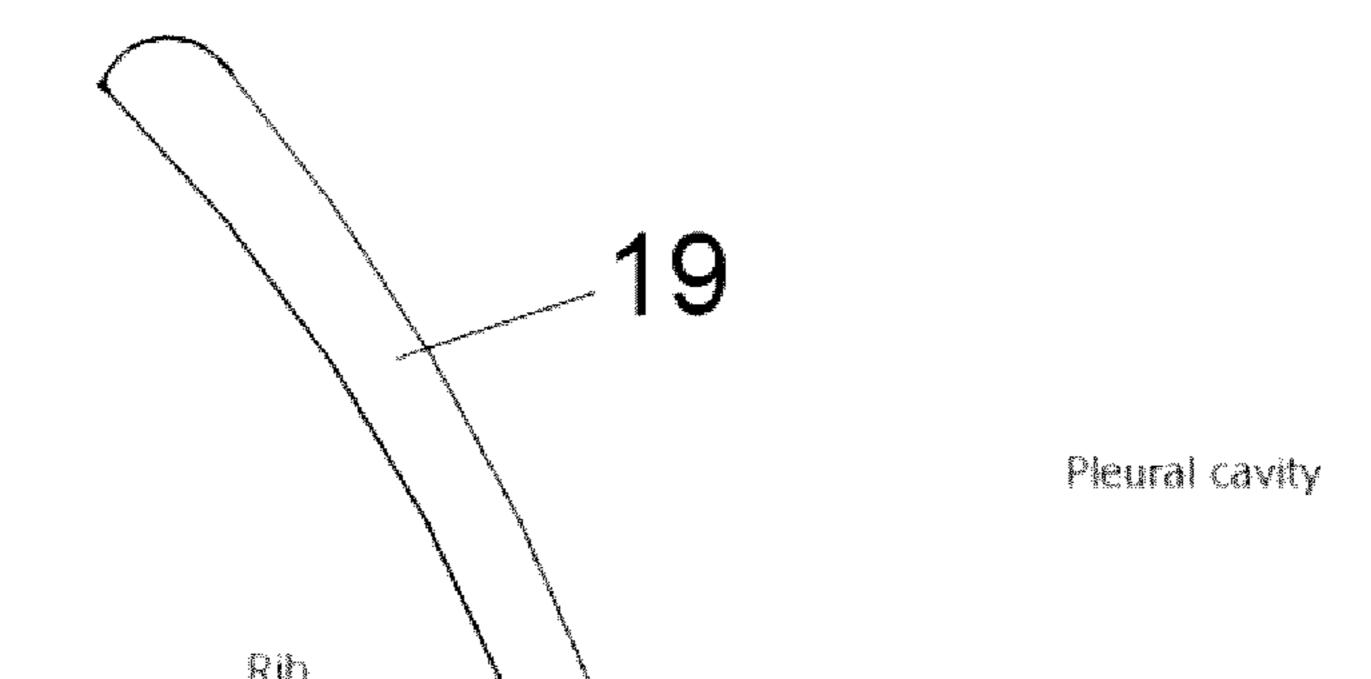








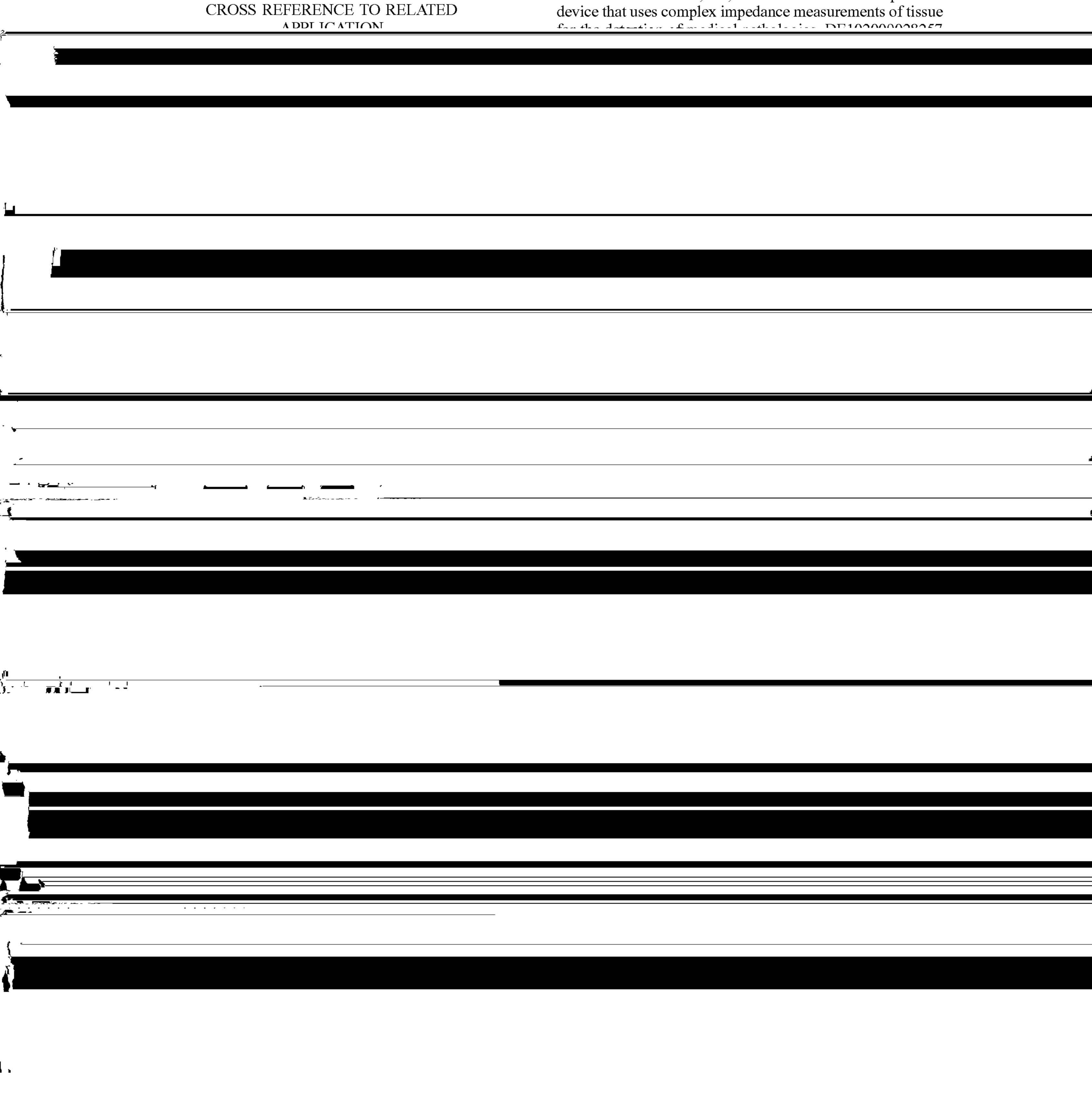




POSITIONING DEVICE FOR MEDICAL **DEVICES**

CROSS REFERENCE TO RELATED

mining the appropriate positioning of the device. This may be accomplished, for example, by detecting specific tissue or fluid. U.S. Pat. No. 7,499,745 discloses one example of a



[0017] FIG. 2 shows the combined outer sheath and canclockwise, will direct the sheath forward while anti-clocknula of the two part insertion apparatus. wise rotation will direct the sheath backward. The angle, and rotated in the reverse direction, thereby moving the protrusion back to the longitudinal channel and moving the protrusion out of the longitudinal channel until the cannula is removed from the outer sheath.

[0031] For insertion of the positioning device into a patient, the inner cannula is inserted into the outer sheath, as

[0036] In one aspect, the steps for inserting the positioning device are described using a pneumothorax drainage device:

[0037] 1. Clinical decision about tube thoracotomy (chest tube insertion) is made by the operator, and insertion point is targeted rostral to the rib.

[0038] 2. Appropriate anesthetic considerations are made

tube site where feasible. dependent on the diameter of the outer sheath. In some cases, the minimum diameter may be 3 mm and the maxi-[0039] 3. Small incision is made in skin to penetrate

- b. a removable inner cannula for insertion into the outer sheath, the cannula comprising a body for insertion in the body of the outer sheath and a paratrating and an
- a. inserting a removable inner cannula into an outer sheath, wherein the outer sheath comprises a body and

the body of the cannula at an insertion end; and c. a locking device for locking the inner cannula to the outer sheath.

the removable inner cannula comprises a body for insertion in the body of the outer sheath, and a penetrating end on the body of the cannula at an insertion

comprises a base adjacent one end of the body, the base b. positioning the

b. positioning the penetrating end at a desired location on