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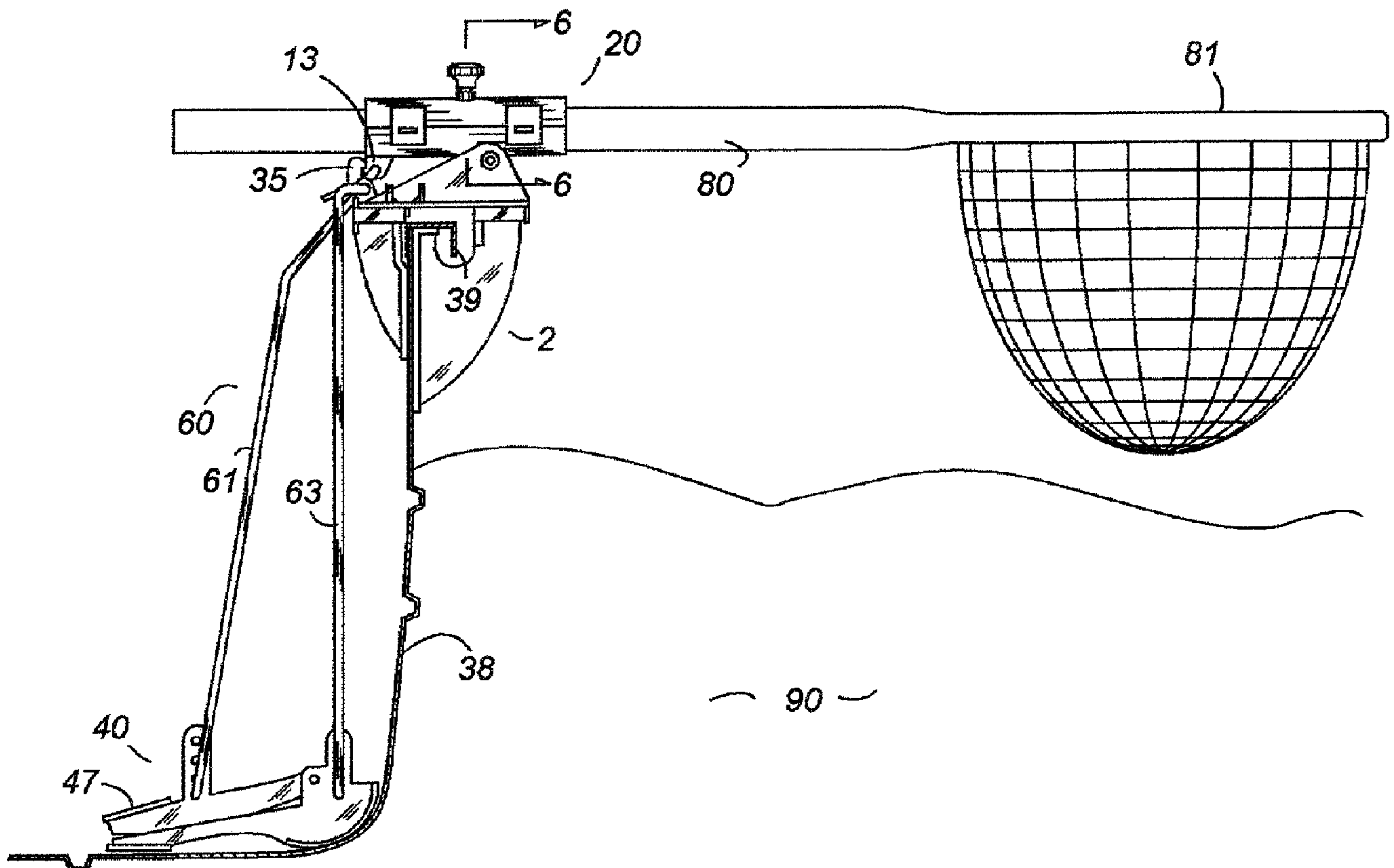
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(54) Title: FOOT OPERATED FISHING NET TIPPER



(57) Abrégé/Abstract:

The present invention relates to a foot operated fishing net tipping apparatus releasably attached to a fishing boat comprising: a boat-attaching portion, a net-holding portion, a lock portion, a foot pedal portion and connecting members. A fisherman can raise and lower the fishing net with one foot, thereby freeing both hands for the fishing rod.

ABSTRACT OF THE DISCLOSURE

The present invention relates to a foot operated fishing net tipping apparatus releasably attached to a fishing boat comprising: a boat-attaching portion, a net-holding portion, a lock portion, a foot pedal portion and connecting members. A fisherman can raise
5 and lower the fishing net with one foot, thereby freeing both hands for the fishing rod.

TITLE OF THE INVENTION**FOOT OPERATED FISHING NET TIPPER****BACKGROUND OF THE INVENTION**

In fishing, especially from a conventional fishing boat, it is common for fishermen to help one another in bringing a caught fish into the boat by having one person handle the fishing line and another person using a net to secure the catch. On a good day
5 fishing, when two fishermen have a fish on, it becomes virtually impossible to help each other in the above fashion.

It became apparent to the inventor to devise an apparatus that would use one's foot to operate a fishing net from a conventional fishing boat.

Prior art teaches of no such apparatus that enables a boat fisherman to
10 operate a fishing net with a foot pedal.

SUMMARY OF THE INVENTION

It is thus the object of the present invention to provide boat fishermen with a foot operated fishing net tipper designed to free a fisherman's hands while reeling in his/her catch.

5 In one aspect of the invention, the boat-attaching portion may be fixedly attached to a boat's upper edge.

In another aspect of the invention, the boat-attaching portion may incorporate a clamp-type device to releasably secure said boat-attaching portion.

10 Accordingly, the foot-operated fishing net tipper of the present invention allows a fisherman to operate a fishing net by foot while manipulating a fishing rod with both hands.

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BRIEF DESCRIPTION OF THE DRAWINGS

These and other advantages of the invention will become apparent upon reading the following brief description and upon referring to the drawings in which:-

FIGURE 1 is a perspective view of the foot operated fishing net tipper of the present invention shown attached to a boat's side.

FIGURE 2 is a cross-sectional view taken from Figure 1 of the boat-attaching portion of the foot operated fishing net tipper of the present invention shown clamped to a boat's side.

FIGURE 3 is a cross-sectional view taken from Figure 1 of the boat-attaching portion of the foot operated fishing net tipper of the present invention shown unclamped from a boat's side.

FIGURE 4 is a cross-sectional view taken from Figure 1 of the locking latch portion of the foot operated fishing net tipper of the present invention shown with the latch engaged.

FIGURE 5 is a cross-sectional view taken from Figure 1 of the locking latch portion of the foot operated fishing net tipper of the present invention shown with the latch disengaged.

FIGURE 6 is a cross-sectional view taken from Figure 8 of the net holding portion of the foot operated fishing net tipper of the present invention shown in a net securing position.

FIGURE 7 is a cross-sectional view taken from Figure 8 of the net holding portion of the foot operated fishing net tipper of the present invention shown in an opened position.

FIGURE 8 is a right-side elevation view of the foot operated fishing net tipper of the present invention shown attached to a boat and holding a net in a raised position.

FIGURE 9 is a right-side elevation view of the foot operated fishing net tipper of the present invention shown attached to a boat and holding a net in a lowered position.

5 FIGURE 10 is a perspective view of an alternate embodiment of the boat attaching portion of the foot operated fishing net tipper of the present invention shown attached to a boat's side.

10 While the invention is described in conjunction with preferred illustrated embodiments, it will be understood that it is not intended to limit the invention to such embodiments. On the contrary, it is intended to cover all alternatives, modifications and equivalents as may be included within the spirit and scope of the invention as defined by the appended claims.

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DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

In the following description, similar features in the drawings have been given similar reference numerals.

Turning to the drawings, in particular, Figure 1, which illustrates a perspective
5 view of the foot operated fishing net tipper of the present invention comprising: a boat-
attaching portion 2 with each half being a mirror image of the other having a generally
planar member 6, an outer bracket 5, an inner bracket 9, an outer clamp 3 adapted with a
channel 4 to slide in a mating channel within the outer bracket 5, an inner clamp 7 also
having a channel 8 adapted to slide unidirectionally in a mating channel within the inner
10 bracket 9, a ratchet mechanism adapted with a hinged member 11 hinged to the planar
member 6 within an opening 16 where said hinge member 11 is adapted with a plurality of
teeth mating with a reversed pattern of teeth atop the channel 8 of the inner clamp 7, a pair
of upwardly projecting plates 70 integrally attached to the planar member 6 thereby forming
two raised fins above said planar member 6 through which a horizontal reinforced
15 perforation 31 is provided to rotably engage an axle 30 holding the net holding portion 20, a
net-holding portion 20 having a lower 21 and an upper 22 hemi-cylindrical half forming a
generally hollow tubular member, said lower half 21 is fixedly attached to an axle housing
member 28 through which an axle 30 passes, and also adapted with a hinge 25 and latch
pins 24, the upper half 22 of the net holding portion 20 is adapted with a mating hinge 25,
20 latches 23 having a opening through which the latch pins 24 of the lower half of the net
holding portion 20 frictionally engage, a turn bolt having a knob 27 and a threaded stem
protruding a similarly threaded opening at the very top of the upper half 22 of the net
holding portion 20, a strike 13 located on the lower rearmost surface of the lower half of the

net holding portion **20** having a rearward hook portion and a horizontal perforation a lock
portion having a pivoting latch **35** and a lever **37** fixedly attached to an axle housing so as
to rotably with connecting members **62** and **63** where said connecting members **62** and **63**
form an axle upon which the locking latch assembly rotates, connecting assembly **60**
5 including rear connecting members **62** & **63** and a center transmission arm **61**, and a foot
pedal assembly **40** having a curved toe portion **41**, a planar heel portion **42** joined by
vertically planar joining members **43** to which upwardly protruding tongues **50** are integrally
attached, a pedal having an arm **46** and axle housing **45** and a planar pad **47** and an
upwardly protruding tongue **51** all integrally attached to said arm **46** by an axle **52**
10 traversing perforations at each joining member **50**.

Turning now to Figure 2, a cross sectional view taken from Figure 1 of the
boat-attaching portion **2** of the foot operated fishing net tipper of the present invention
illustrating a partial section of a boat's side adapted with the boat-attaching portion **2**
comprising: an outer clamp **3** slidably connected to the outer channel portion **5** of the planar
15 base **6** where a widened member **76** contacts the outer surface of the boat's side **38** just
under the boat's upper lip **39**, and an inner clamp portion **7** ratchetedly attached to the inner
channel member **9** of the planar base **6**.

Turning now to Figure 4, further illustrating the ratchet mechanism comprising: an
inner clamp member **7** slidably engaged within a channel **9** fixedly attached to a planar
20 base **6**, and a hinged ratchet latch **18** floating above a mating ratchet surface **17** thereby
promoting a solid grip between the ratcheted lower clamp surface and the similarly
ratcheted surface **12** of the hinged ratchet latch **18**. The connection can be disengaged by

squeezing the handle **11** and **10** together thereby lifting the hinged ratchet latch **18** away from the ratcheted upper surface of the inner clamp member **7**.

In reference now again to Figures 2, it can be further understood how when the inner clamp member is pushed outwardly against the inner surface of the boat's side with the lower grip **14** while pulling the planar surface **6** inwardly with the upper grip **15**, a clamp-like pressure is exerted on both inner and outer surfaces of the boat's side.

Turning now to Figures 3, illustrating the initial set-up of the boat-attaching portion **2**. The inner clamp member **7** is then inserted within an inner channel within the channel member **9** to engage the ratchet latch.

Turning to Figure 5, a cross-sectional view of the ratchet latch assembly in a disengaged position illustrating the freedom granted to the inner clamp member **7** thus allowing said member to be retracted inwardly away from the boat-attaching portion **2** of the present invention.

Referring now to Figure 6, a cross-sectional view taken from Figure 8, illustrating the net holding portion **20** having a lower **21** and an upper **22** hemi-cylindrical half forming a generally hollow tubular member, said lower half **21** is fixedly attached to an axle housing member **28** through which an axle **30** passes, and also adapted with a hinge **25** and latch pins **24**, the upper half **22** of the net holding portion **20** is adapted with a mating hinge **25**, latches **23** having a opening through which the latch pins **24** of the lower half of the net holding portion **20** frictionally engage, a turn bolt having a knob **27** and a threaded stem protruding a similarly threaded opening at the very top of the upper half **22** of the net holding portion **20**. A net handle **80** may be placed within the hollow cylindrical form by latching the upper latch **23** with the lower latch **24** and tightening the bolt **29** fixedly

attached to a knob **27** threaded to a reinforced portion **26** of the upper half **22** of the net attaching portion **20**.

Figure 7, also a cross-sectional view net holding portion **20** in a collapsed position illustrating the release of a quick release latch **23** from the latch **24** of the lower half of the net holding portion **20**. When a fish is captured in the net **80**, the fisherman's hands are now freed to quickly manipulate the net **80**. Removing the net is accomplished quickly by pulling the upper latches **23** upwardly, releasing said latches from the lower latches **24** thereby allowing rotation of the upper half **21** of the net holding portion **20** thus freeing said net **80**.

Turning now to Figures 8 & 9, a right side elevation of the foot operated fishing net tipper of the present invention further illustrating the connecting members **61** & **63** and the pedal assembly **40** where two connecting members **63** are formed of a rigid material such as steel and adapted to pivotally engage to grips **79** at the top portion of the planar base **6** and similarly to perforations **44** within the tongues at the top portion of the pedal joining members **43**, and a transmission strut **61** is similarly engaged to a strike **13** at the lower rearmost surface of the lower half **21** of the net holding portion **20** and to a perforation in a tongue **51** on the upper edge of the pedal member **46**. It can be observed that when downward pressure is applied atop the pad **47** of the pedal member **46**, the transmission strut thereby transfers this action to the net strike **13**, which in turn rotates the net holding portion toward the inner side of the boat thereby tipping up the outer end of said net holding portion **20**. Furthermore, when the net is raised, a locking assembly engages a latch **35** to a strike **13** which holds the net **80** in an upright position. To lower the net back in the water **90**, the fisherman simply depresses a lever **37** integrally attached and pivotally

engaged to the connecting members **62 & 63** thus releasing the net holding portion **20** and net gravitationally.

Turning now to Figure 10, an alternative embodiment of the boat attaching portion of the foot operated fishing net tipper of the present invention where the same tipping features are preserved when using a screw-on base **6** without clamps for those boats with a wide upper edge **39**. This base **6** is fastened to the boat's upper edge **39** by means of screws **90**.

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**THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE PROPERTY OR
PRIVILEGE IS CLAIMED ARE DEFINED AS FOLLOWS:-**

WHAT I CLAIM AS MY INVENTION:-

1. A foot operated fishing net tipper comprising:
 - 5 a. a boat-attaching having,
 - i. an outer bracket,
 - ii. an inner bracket,
 - iii. an outer clamp adapted with a channel to slide in a mating
channel within the outer bracket,
 - 10 iv. an inner clamp also having a channel adapted to slide
unidirectionally in a mating channel within the inner bracket,
 - v. a ratchet mechanism adapted with a hinged member hinged to
a planar member within an opening where said hinge member
is adapted with a plurality of teeth mating with a reversed
15 pattern of teeth atop the channel of the inner clamp,
 - vi. a pair of upwardly projecting plates integrally attached to the
planar member thereby forming two raised fins above said
planar member through which a horizontal reinforced
perforation is provided to rotably engage an axle holding the
20 net holding portion,
 - b. a net-holding portion having:

- i. a lower and an upper hemi-cylindrical half forming a generally hollow tubular member where said lower half is fixedly attached to an axle housing member through which an axle passes and also adapted with a hinge and latch pins, the upper half of the net holding portion is adapted with a mating hinge,
- ii. latches having a opening through which the latch pins of the lower half of the net holding portion frictionally engage,
- iii. a turn bolt having a knob and a threaded stem protruding a similarly threaded opening at the very top of the upper half of the net holding portion,
- iv. a strike located on the lower rearmost surface of the lower half of the net holding portion having a rearward hook portion and a horizontal perforation a lock portion having a pivoting latch and a lever fixedly attached to an axle housing so as to rotably engage with connecting members where said connecting members form an axle upon which the locking latch assembly rotates,
- c. connecting members having rear stabilizer struts and a center transmission arm, and
- d. a foot pedal assembly having:
 - i. a curved toe portion,
 - ii. a planar heel portion joined by vertically planar joining members to which upwardly protruding tongues are integrally attached,

- iii. a pedal having an arm and axle housing and a planar pad and an upwardly protruding tongue all integrally attached to said arm by an axle traversing perforations at each joining member.

- 5 2. The foot operated fishing net tipper of claim 1 wherein said boat-attaching portion is adapted to clamp onto any small boat side top edge.
- 3. The foot operated fishing net tipper of claim 1 wherein a secondary boat-attaching portion comprises of a planar sheet like portion incorporating the net holding portion and the lock portion of the primary boat attaching portion but adapted to securedly attach to a wide surface with suitable fasteners.
- 10 4. The foot operated fishing net tipper of claim 1 wherein the foot pedal assembly is adapted to enable height adjustability between the boat-attaching portion and the foot pedal assembly.
- 15 5. The foot operated fishing net tipper of claim 1 wherein the lock portion is adapted with a latch that holds the net-holding portion in a horizontal position.
- 6. The foot operated fishing net tipper of claim 1 wherein the net holding portion comprises two halves of a hollowed cylindrical tube-like portion, which quickly collapsed by means of quick release latches.
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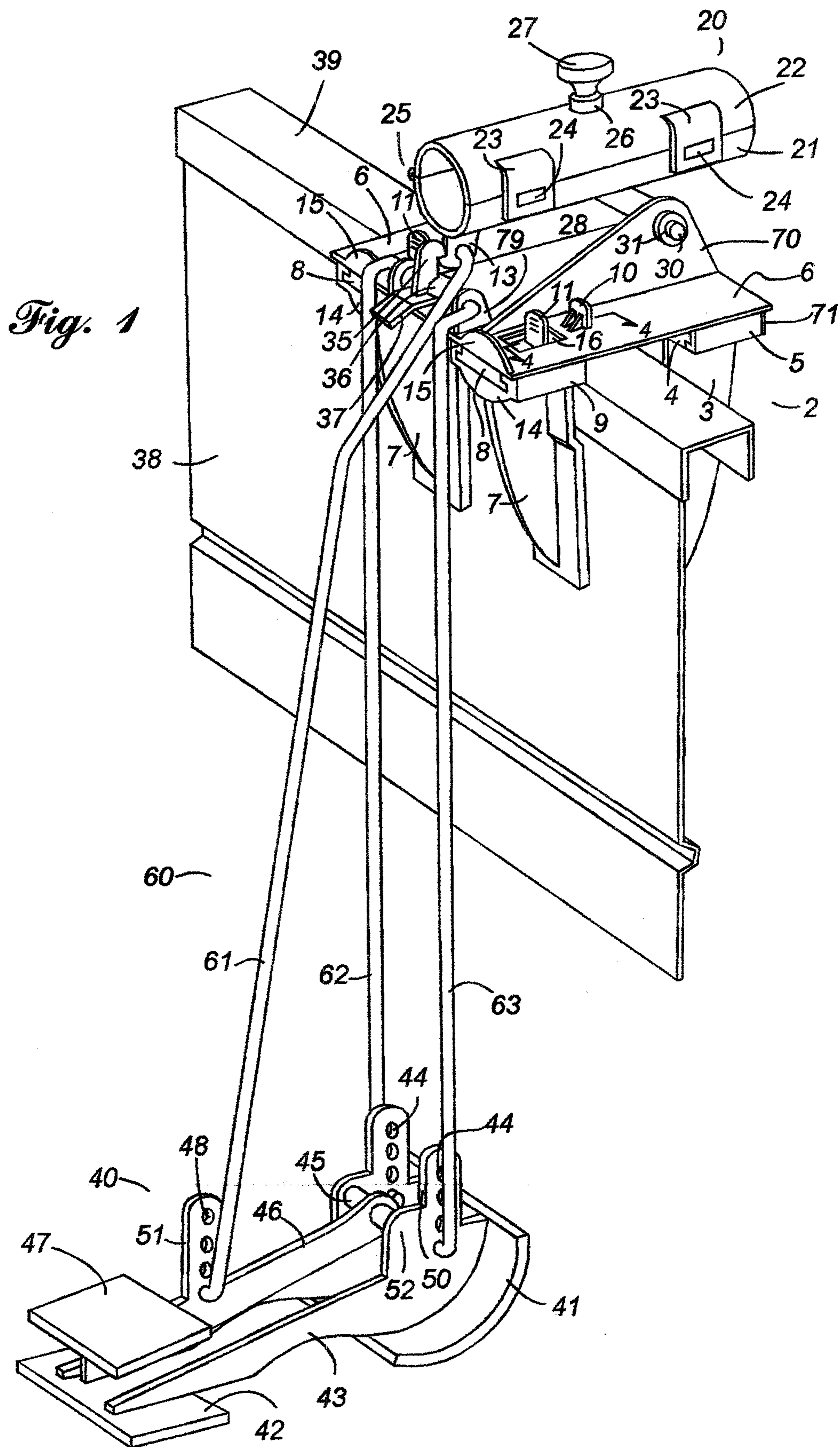
7. The foot operated fishing net tipper according to any one of claims 1 through 6 wherein the use for said foot operated fishing net tipper is to enable hands free operation of a fishing net when fishing from conventional fishing boats.

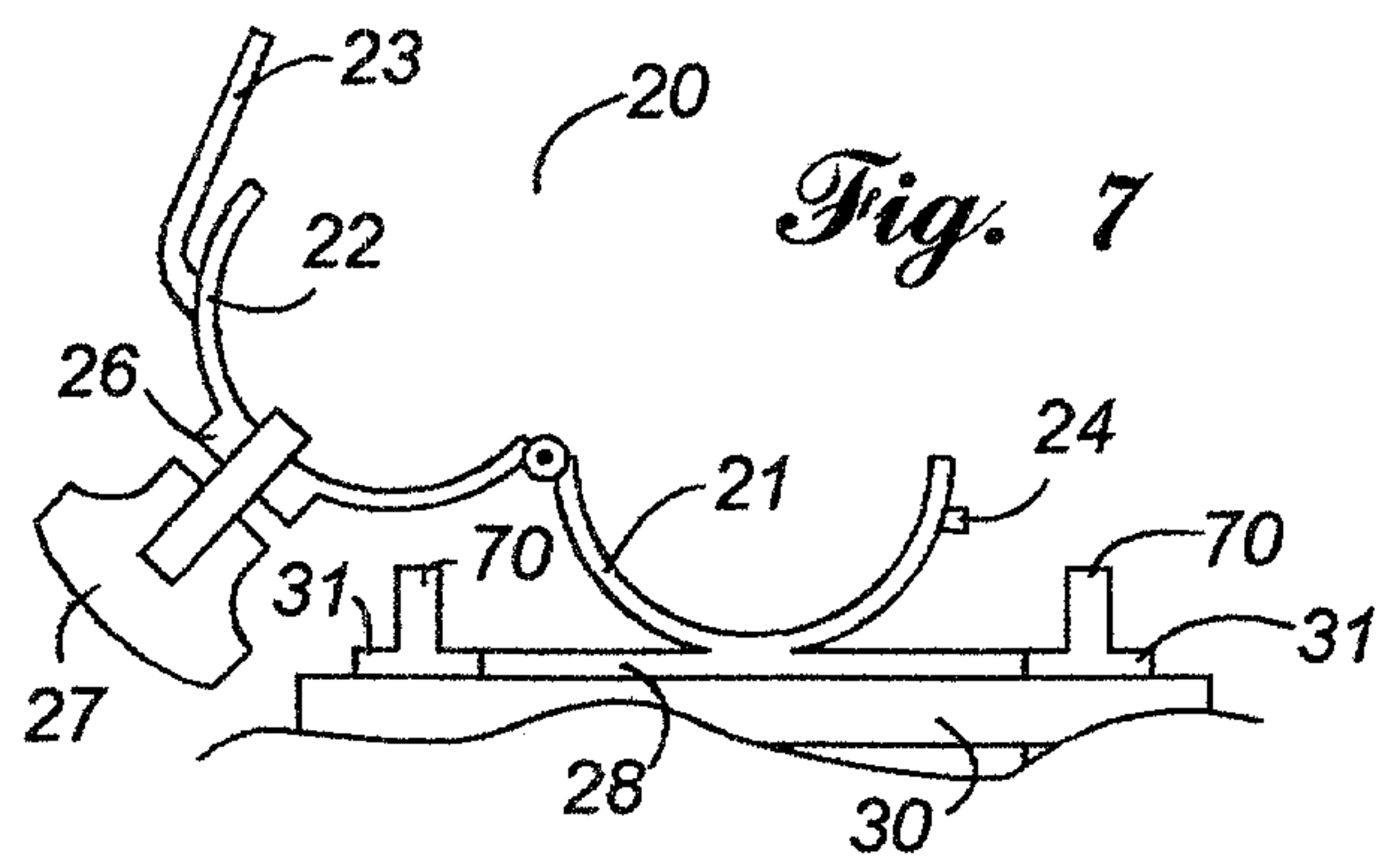
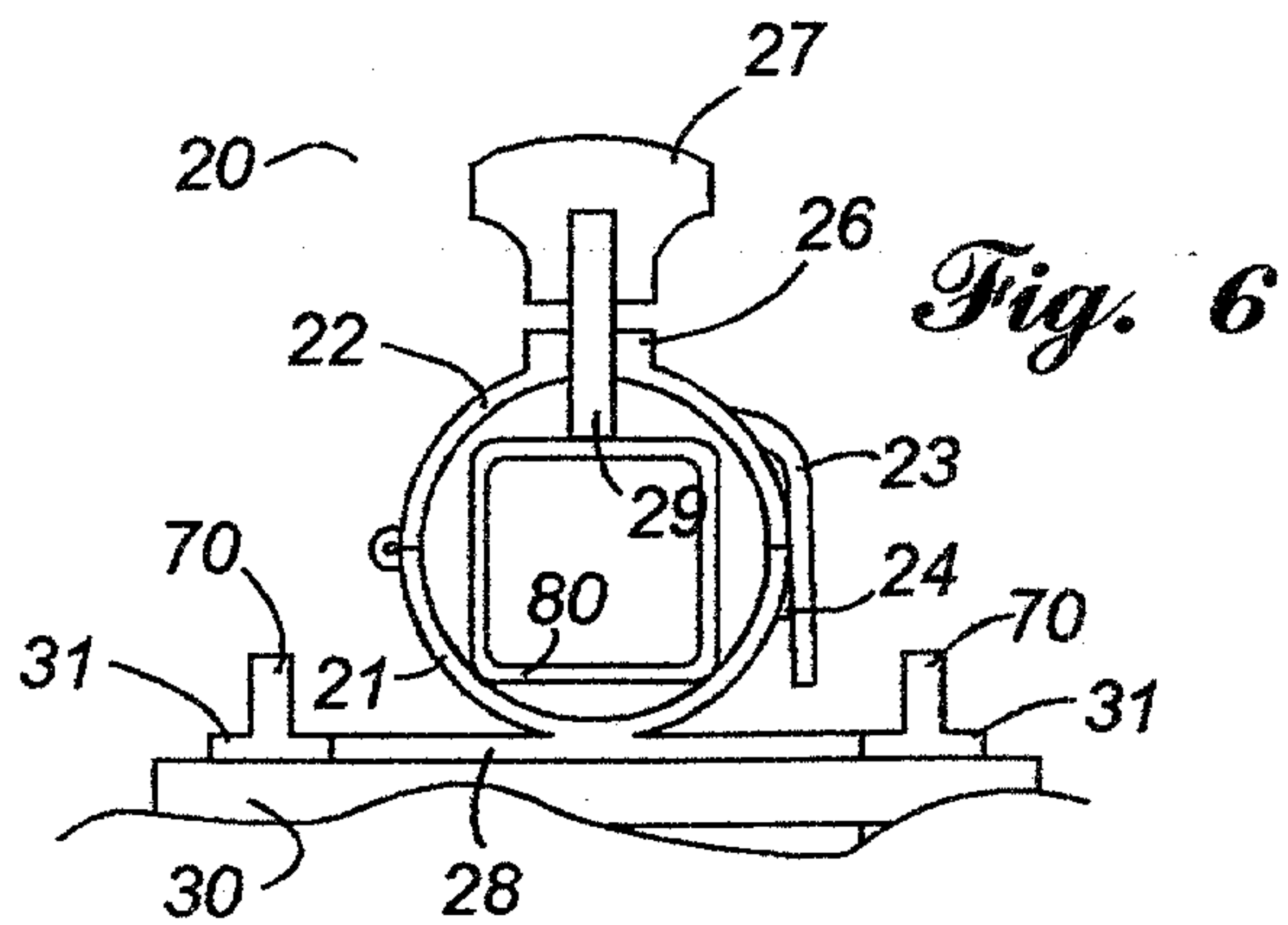
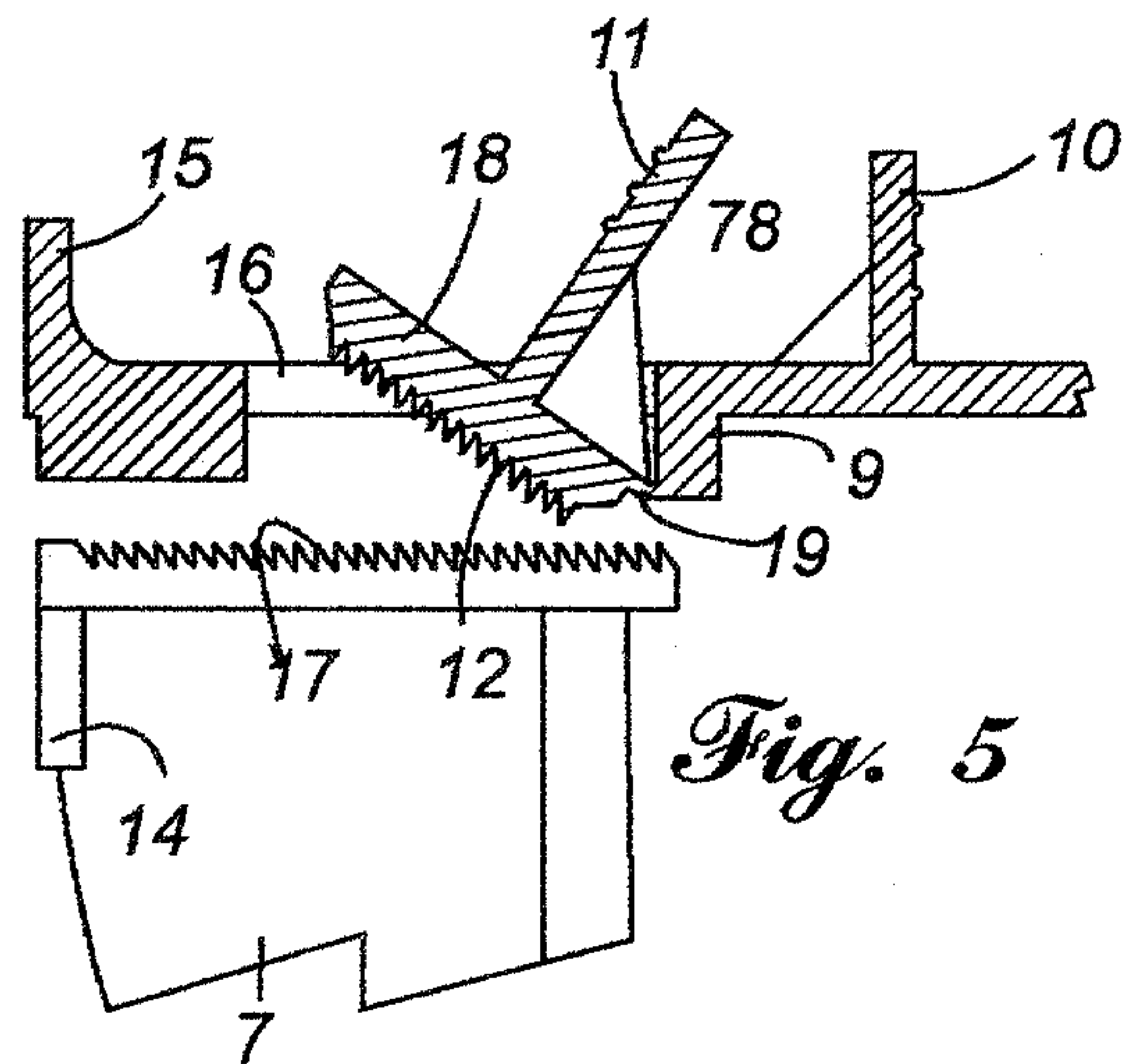
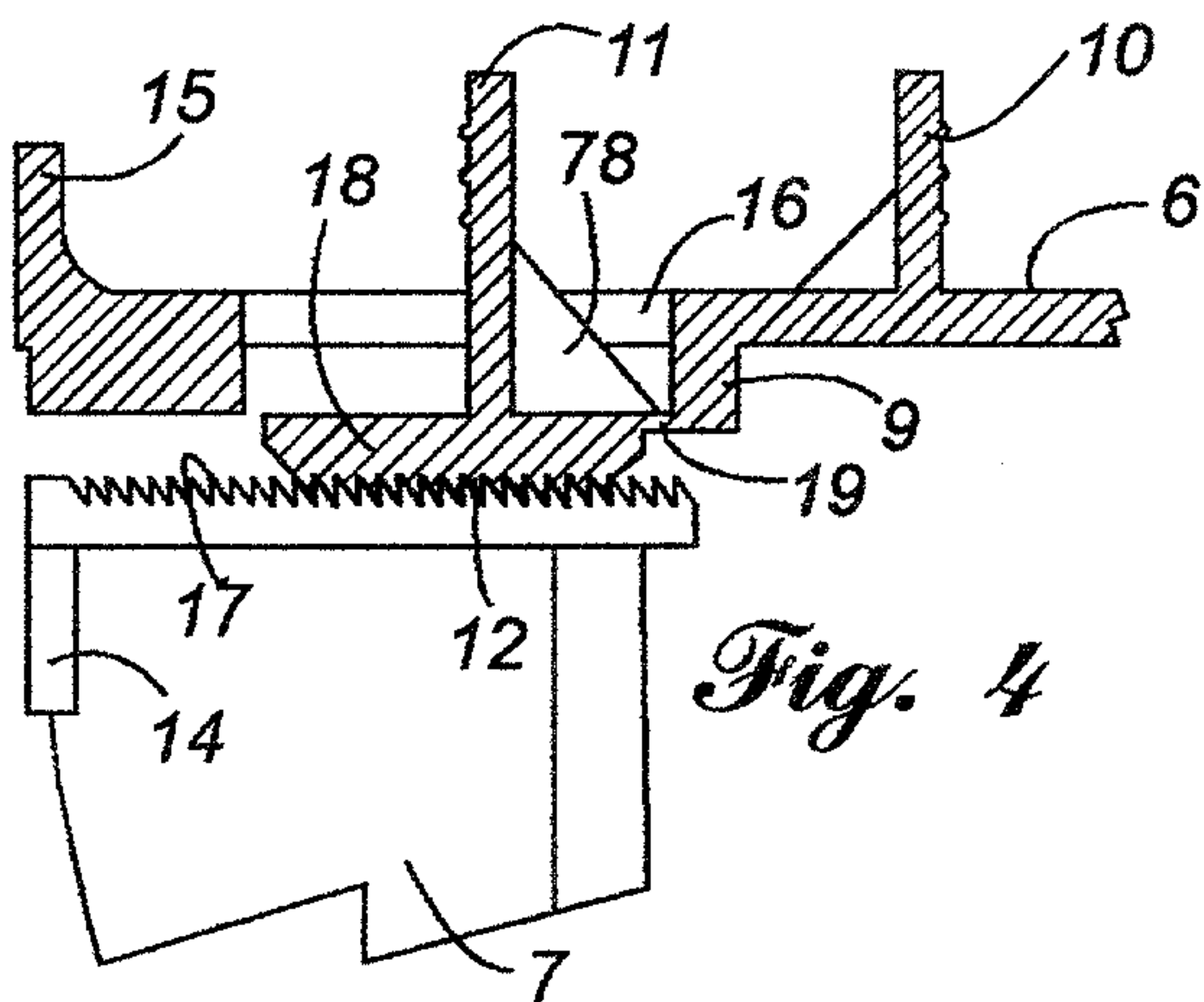
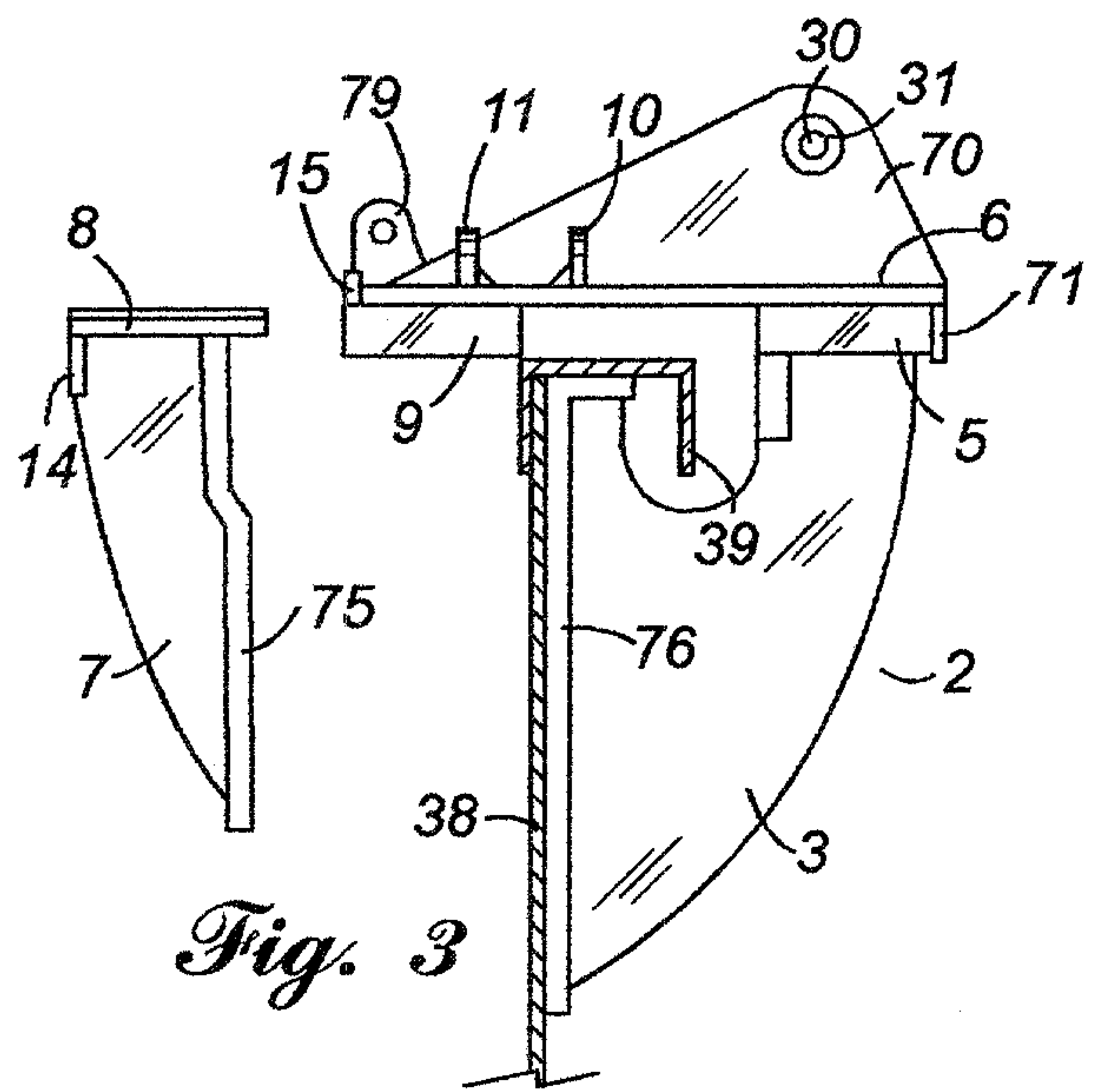
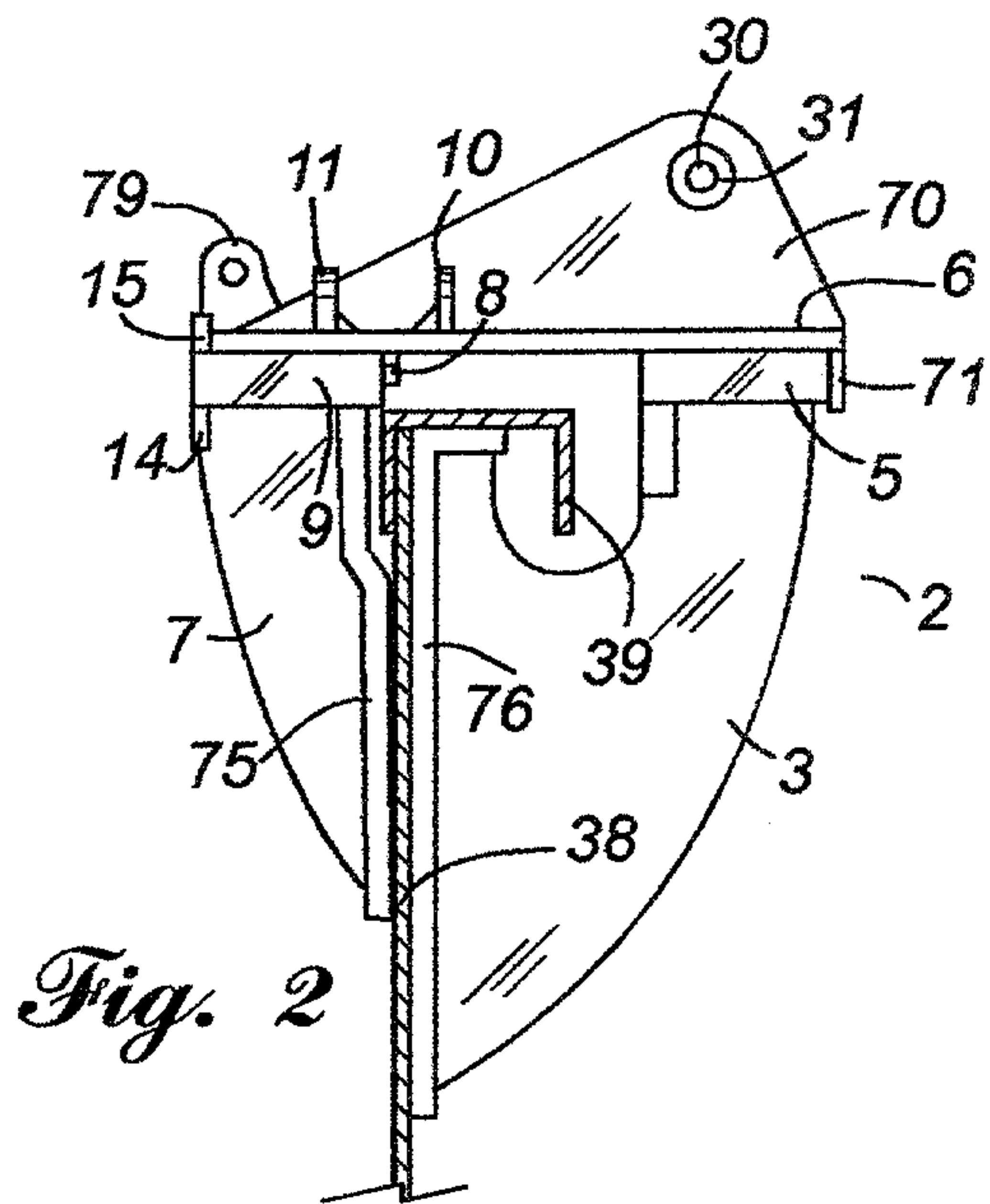
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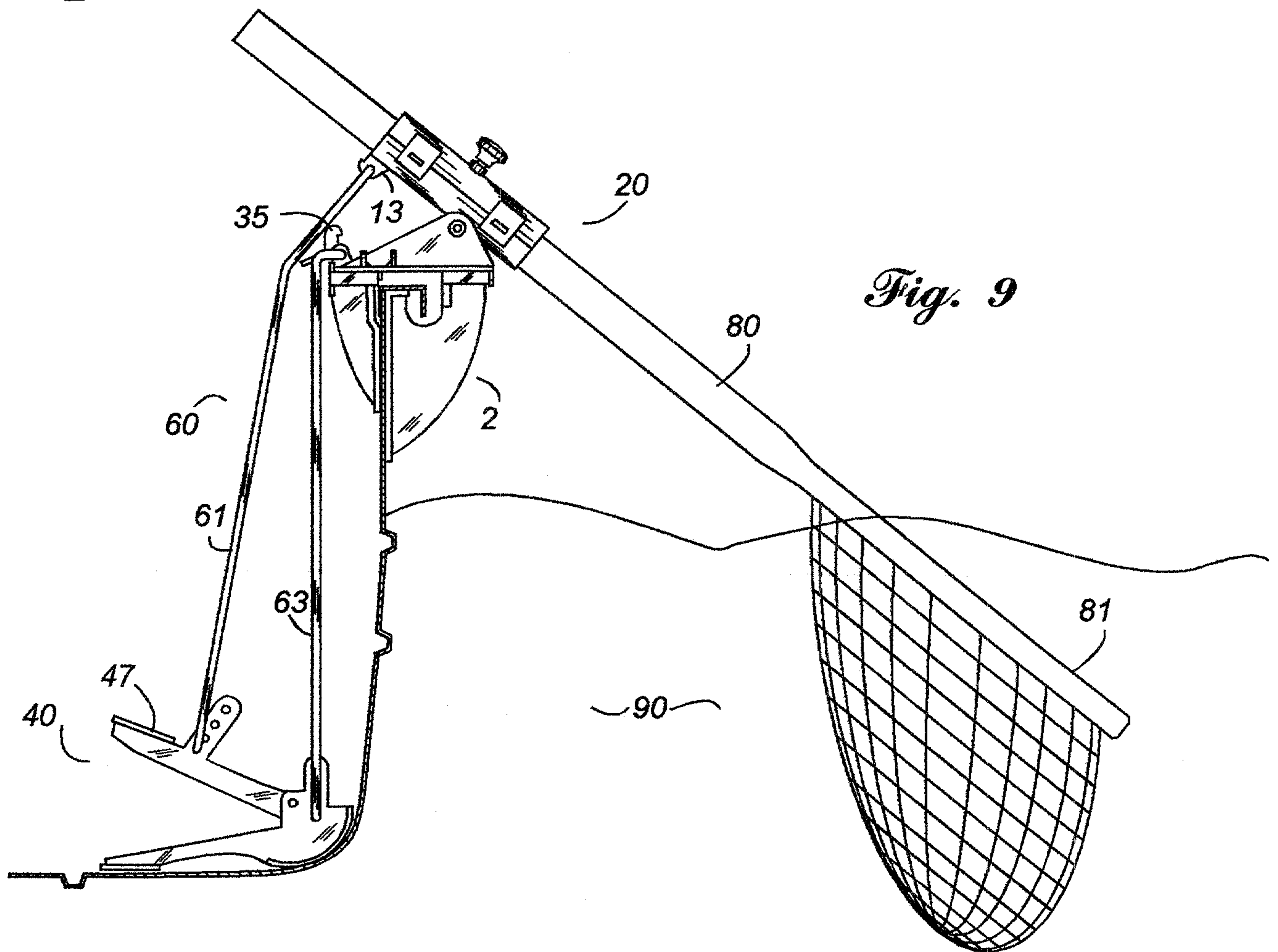
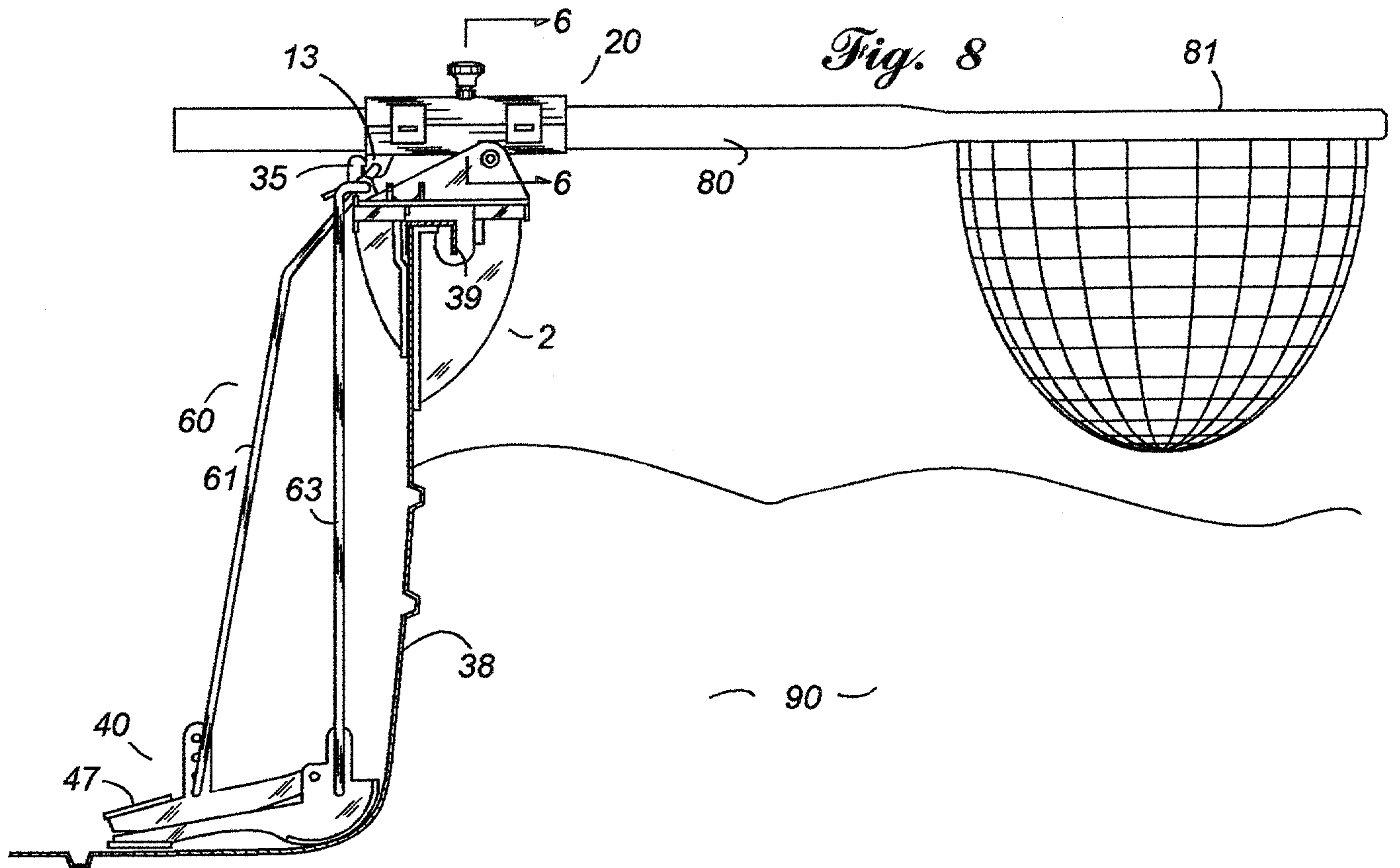


Fig. 10

