An adjustable stand apparatus comprises a pivoting head that attaches to an apparatus to stabilize it. A leg is pivotally connected to the pivoting head. The leg has a pivoting foot attached to the other end. In one embodiment, a leg extension is used to allow a user to adjust the height for use with different sized apparatus. The pivoting head is either mechanically attached to the apparatus using screws or bolts or in another embodiment, a friction pad made of rubber-like material is used to allow a frictional attachment to the selected apparatus. Additionally, friction pads are placed on the pivoting foot to enhance stability. An adjusting pin is biased using a spring to selectively hold the leg extension in a selected position. In another embodiment, the adjustable stand apparatus is not adjustable for use with a specific apparatus.
FIG. 3
ADJUSTABLE STAND APPARATUS

RELATED APPLICATIONS


BACKGROUND OF THE INVENTION

[0002] Certain apparatus, especially sound apparatus like amplifiers and other musical equipment often works better when angled but merely tilting the apparatus can introduce instability leading to dangerous conditions and equipment damage.

[0003] Sometimes users wedge things under the front of the equipment but this is inconvenient and is not very stable. Some equipment is made at an angle, but that involves specialized equipment which is more expensive and not as flexible. There is a need for an adjustable stand apparatus that allows a user to safely support equipment at any suitable angle.

SUMMARY OF THE INVENTION

[0004] An adjustable stand apparatus comprises a pivoting head that attaches to an apparatus to stabilize it. A leg is pivotally connected to the pivoting head. The leg has a pivoting foot attached to the other end. In one embodiment, a leg extension is used to allow a user to adjust the height for use with different sized apparatus. The pivoting head is either mechanically attached to the apparatus using screws or bolts or an other embodiment, a friction pad made of rubber-like material is used to allow a frictional attachment to the selected apparatus. Additionally, friction pads are placed on the pivoting foot to enhance stability. An adjusting pin is biased using a spring to selectively hold the leg extension in a selected position. In another embodiment, the adjustable stand apparatus is not adjustable for use with a specific apparatus.

[0005] Other features and advantages of the instant invention will become apparent from the following description of the invention which refers to the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

[0006] FIG. 1 is a front view of an adjustable stand apparatus according to an embodiment of the present invention.

[0007] FIG. 2 is a front view of an adjustable stand apparatus according to an embodiment of the present invention.

[0008] FIG. 3 is a front view of the adjustable stand apparatus shown in FIG. 2 in an extended configuration.

[0009] FIG. 4 is a side view of the adjustable stand apparatus shown in FIG. 3 in an extended configuration.

[0010] FIG. 5 is a side view of the adjustable stand apparatus shown in FIG. 4 in a typical application according to an embodiment of the present invention.

[0011] FIG. 6 is a side view of an alternative embodiment of the present invention.

DETAILED DESCRIPTION OF THE INVENTION

[0012] In the following detailed description of the invention, reference is made to the drawings in which reference numerals refer to like elements, and which are intended to show by way of illustration specific embodiments in which the invention may be practiced. It is understood that other embodiments may be utilized and that structural changes may be made without departing from the scope and spirit of the invention.

[0013] Referring to FIG. 1, an adjustable stand apparatus 100 comprises a pivoting head 105 with holes 125 disposed therein. A leg 115 is attached with a pivot bolt 130 and a nut 135 that allows leg 115 to swing freely around pivot bolt 130. Friction pads 120 allow pivot head to frictionally engage a piece of equipment. Leg 115 may be any suitable length to provide stability to various pieces of equipment such as amplifiers, pictures, boxes or almost any rectangular objects. A pivoting foot 110 is rotatably attached to the bottom of leg 115 using a pivot rod 140 allowing pivot foot 110 to freely rotate to make perpendicular contact with a surface. Frictional pads 120 may also be used on pivoting foot 110 to increase stability.

[0014] Referring now to FIGS. 2 through 5, an adjustable stand apparatus 200 comprises pivoting head 205 with a leg 215 and a leg extension 255 that fits within leg 215. A plurality of adjusting holes 260 are used to allow a user to adjust the height. An adjusting pin 250 engages leg 215 with leg extension 255 by selectively engaging adjustment holes 260. A spring (not shown) provides the biasing as is known in the art. Of course other methods of selective holding may be used such as a retaining pin, spring biased ball bearing, nut and bolt, etc. as is known in the art.

[0015] A piece of equipment 505 is supported by adjustable stand apparatus 200 by engaging equipment 505 along an upper rear portion either by mechanical means such as a screw (not shown) or frictionally by friction pads 120. Pivoting head rests perpendicularly to the back surface of equipment 505 by pivoting around pivot bolt 130. Pivot foot 110 rests perpendicular to surface 510 by pivoting around pivot pin 140 and is frictionally engaged with surface 510 using frictional pads 120.

[0016] Adjustable stand apparatus can be used to selectively stabilize any object that rests on a surface as long as the center of gravity remains within the support provided by using the adjustable stand apparatus. It allows a user to safely angle the object quickly and easily without the need to permanently alter the equipment.

[0017] Referring to FIG. 6, an adjustable stand apparatus is shown having a fixed head 605 connected to a leg 615 which is in turn fixedly connected to a foot 610. This embodiment does not allow apparatus to be adjusted, but is useful where adjustability is not needed such as always using the stand with a particular apparatus.

[0018] Although the instant invention has been described in relation to particular embodiments thereof, many other variations and modifications and other uses will become apparent to those skilled in the art.

What is claimed is:

1. An adjustable stand apparatus comprising:
   a pivoting head;
   said pivoting head having a head pivot rod centrally disposed on an end therein;
   a leg having a first end pivotally connected to said head pivot rod;
   a pivoting foot;
   said leg having a foot pivot rod disposed at a second end; and
   said pivoting foot being pivotally connected to said foot pivot rod wherein said foot is free to rotate to adjust to a surface therein.
2. An adjustable stand apparatus according to claim 1 further comprising:
   a leg extension movably disposed within said leg; and
   an adjustment pin to selectively adjust said leg extension.
3. An adjustable stand apparatus according to claim 1 further comprising at least one friction pad disposed on said pivoting head.
4. An adjustable stand apparatus according to claim 1 further comprising at least one friction pad disposed on said pivoting foot.
5. An adjustable stand apparatus according to claim 1 further comprising:
   a leg extension movably disposed within said leg; and
   an adjustment means for selectively adjusting said leg extension.
6. An adjustable stand apparatus according to claim 5 wherein said adjustment means comprises a spring-loaded detent pin.
7. An adjustable stand apparatus according to claim 6 wherein said leg extension further comprises a plurality of adjustment holes disposed therein wherein said spring-loaded detent pin selectively fits within one of said plurality of adjustment holes to select an extension position.
8. An adjustable stand apparatus comprising:
   a pivoting head;
   a leg having a first end pivotally connected to said head pivot rod;
   a pivoting foot; and
   said pivoting foot being pivotally connected to a second end of said pivoting foot wherein said foot is free to rotate to adjust to a surface therein.
9. An adjustable stand apparatus according to claim 8 further comprising:
   a leg extension telescopically disposed within said leg; and
   an adjustment means for selectively adjusting said leg extension.
10. An adjustable stand apparatus according to claim 9 wherein said adjustment means comprises a spring-loaded detent pin.
11. An adjustable stand apparatus according to claim 10 wherein said leg extension further comprises a plurality of adjustment holes disposed therein wherein said spring-loaded detent pin selectively fits within one of said plurality of adjustment holes to select an extension position.
12. An adjustable stand apparatus according to claim 11 further comprising a securing means to secure said pivoting head to a selected apparatus wherein said apparatus is stabilized in a selected position therein.
13. An adjustable stand apparatus according to claim 12 wherein said securing means is at least one screw wherein said screw is removable secured through a hole in said pivoting head and into said selected apparatus.
14. An adjustable stand apparatus according to claim 12 wherein said securing means is at least one bolt wherein said bolt is removable secured through a hole in said pivoting head and into said selected apparatus.
15. An adjustable stand apparatus comprising:
   a head;
   a leg having a first end connected to said head at an apparatus angle selected to align with a selected apparatus surface;
   a foot;
   said foot being connected to a second end of said leg wherein said foot is angled to align with a floor surface.
16. An adjustable stand apparatus according to claim 15 wherein said apparatus angle is between 45 to 60 degrees.
17. An adjustable stand apparatus according to claim 16 wherein said head is frictionally in contact with a surface of a selected apparatus.
18. An adjustable stand apparatus according to claim 15 wherein said head is mechanically connected to a surface of a selected apparatus.