



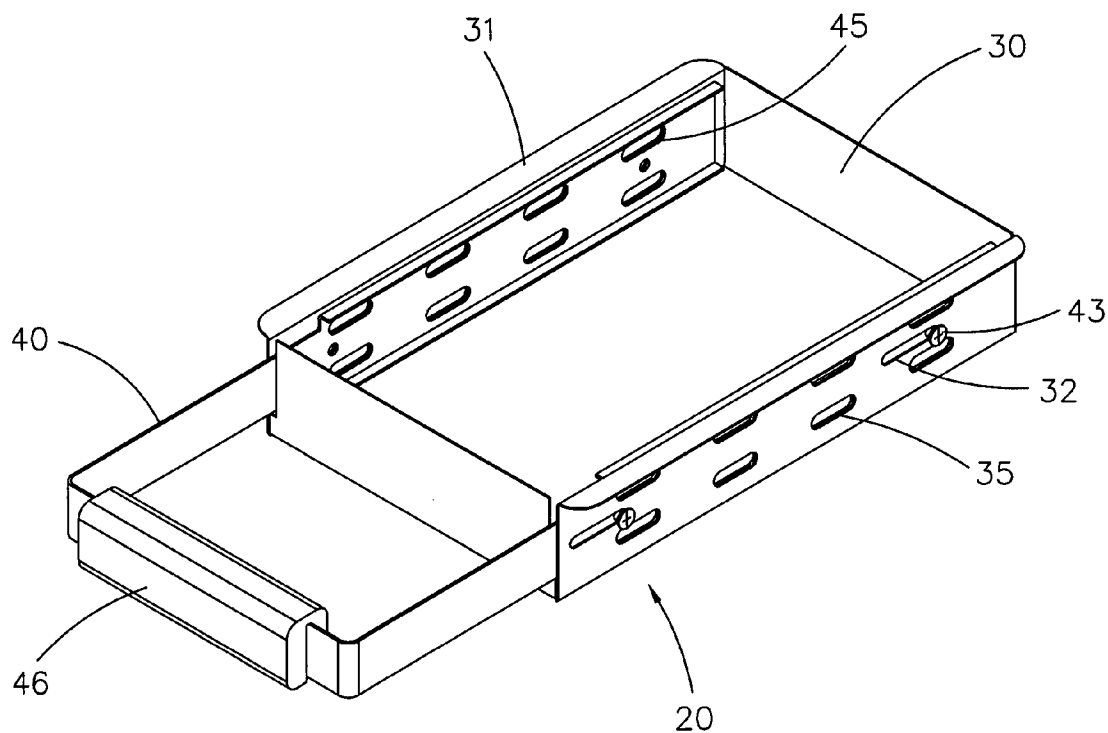
US 20060266345A1

(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2006/0266345 A1****Chung**(43) **Pub. Date:****Nov. 30, 2006**(54) **WASTE COLLECTOR FOR BARBECUE GRILL**(52) **U.S. Cl. .... 126/25 R**(76) **Inventor: Kiosky Chung, Taichung City (TW)**(57) **ABSTRACT**

Correspondence Address:  
**CHARLES E. BAXLEY, ESQ.**  
**90 JOHN STREET**  
**THIRD FLOOR**  
**NEW YORK, NY 10038 (US)**

(21) **Appl. No.: 11/139,387**(22) **Filed: May 27, 2005****Publication Classification**(51) **Int. Cl.**  
**F24B 3/00 (2006.01)**

A barbecue grill includes a grill body, and a waste collector. The waste collector includes a support member, and a regulating member. The support member has two side walls each formed with a plurality of elongated ventilating holes each connected to the through hole of the grill body. The regulating member has two side walls each movably mounted in a respective side wall of the support member and each formed with a plurality of elongated ventilating holes each connected to a respective one of the ventilating holes of the support member. Thus, the waste collector can regulate the ventilating effect of the grill body, thereby enhancing the cooking efficiency of the barbecue grill.



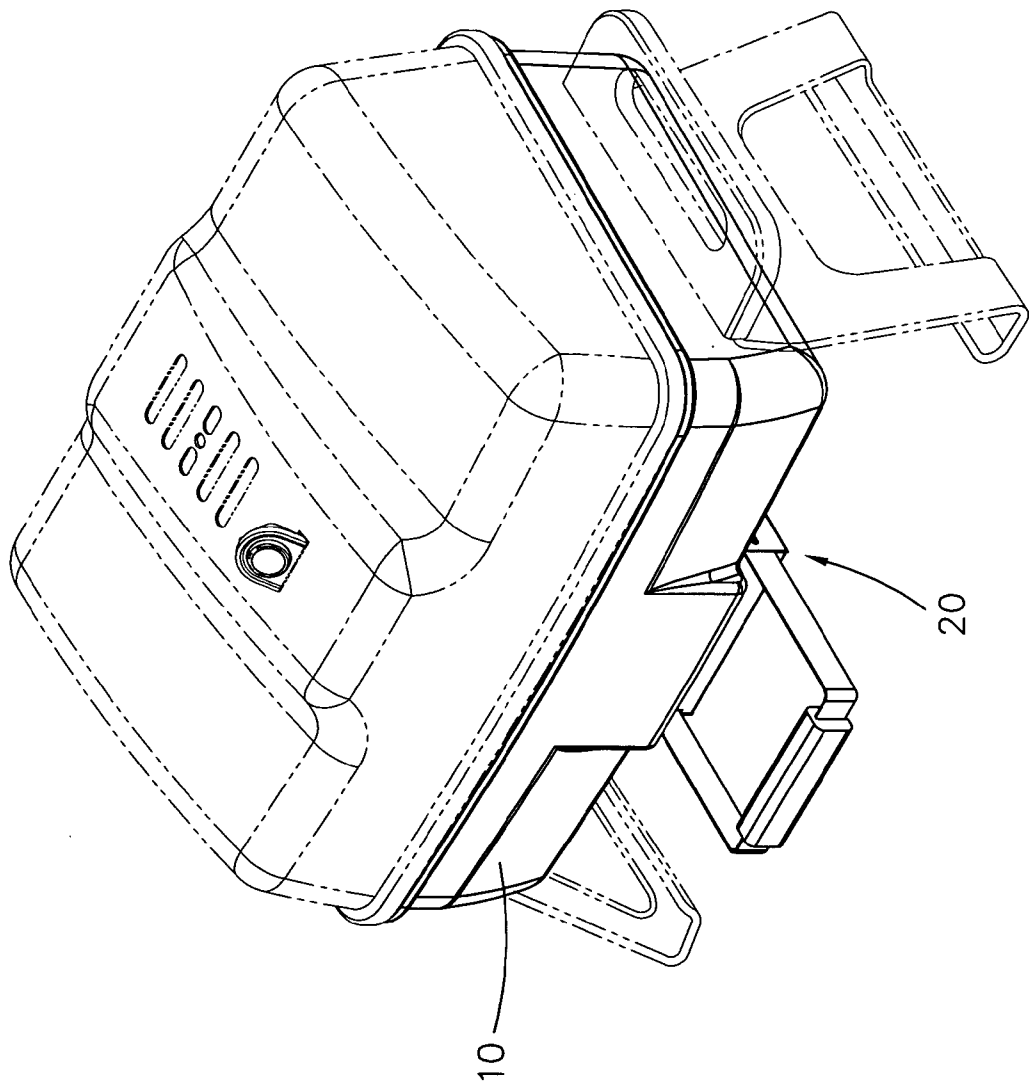


FIG. 1

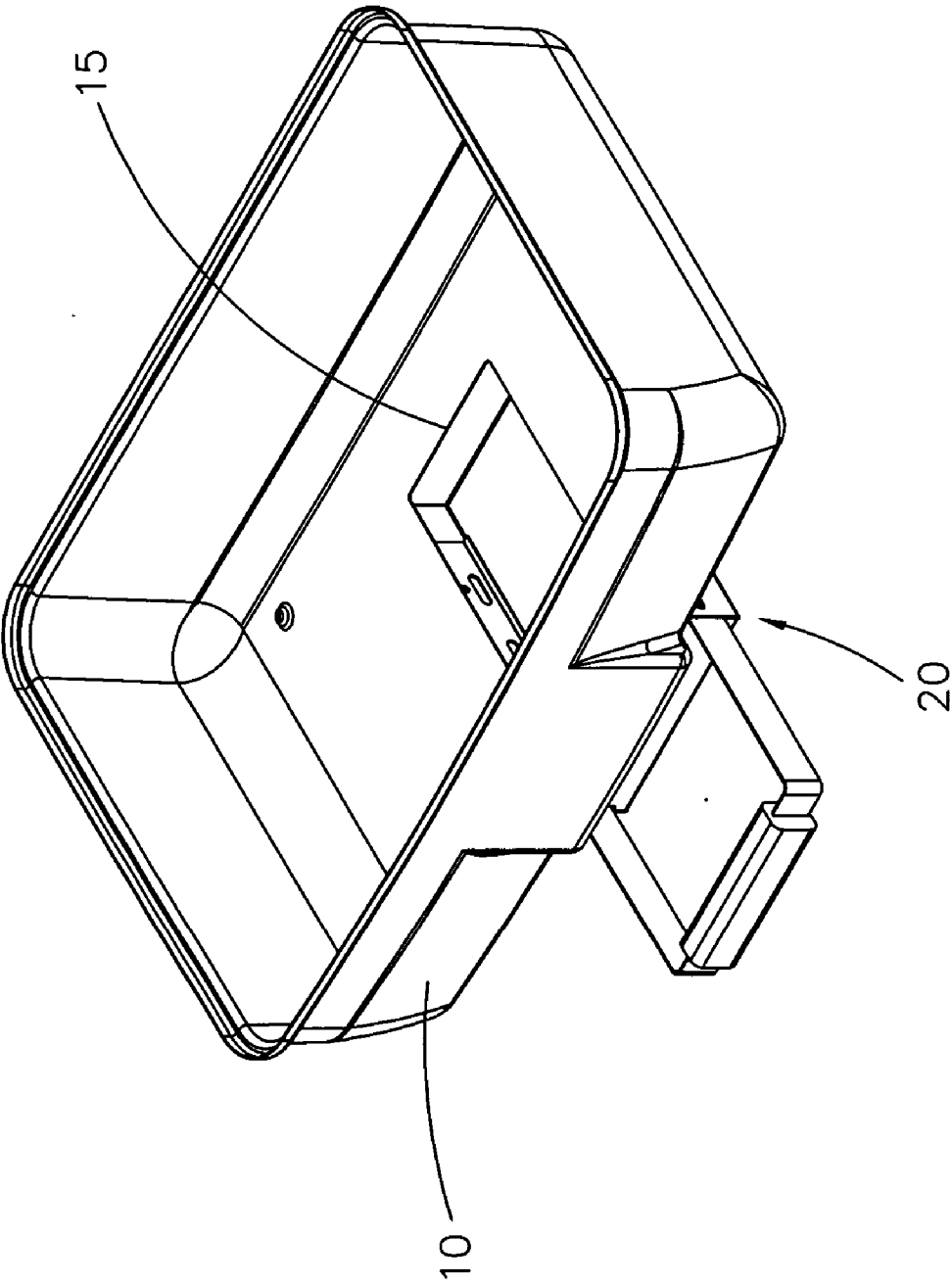


FIG. 2

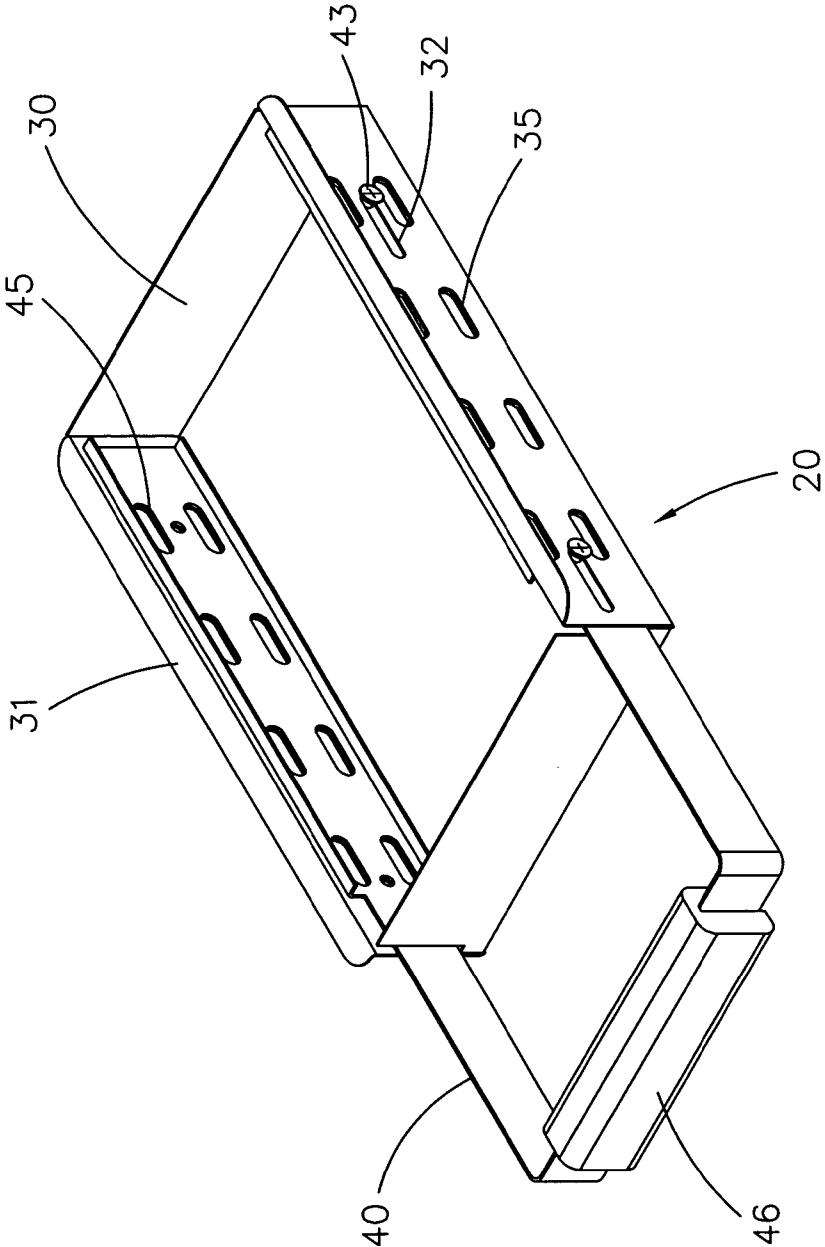


FIG. 3

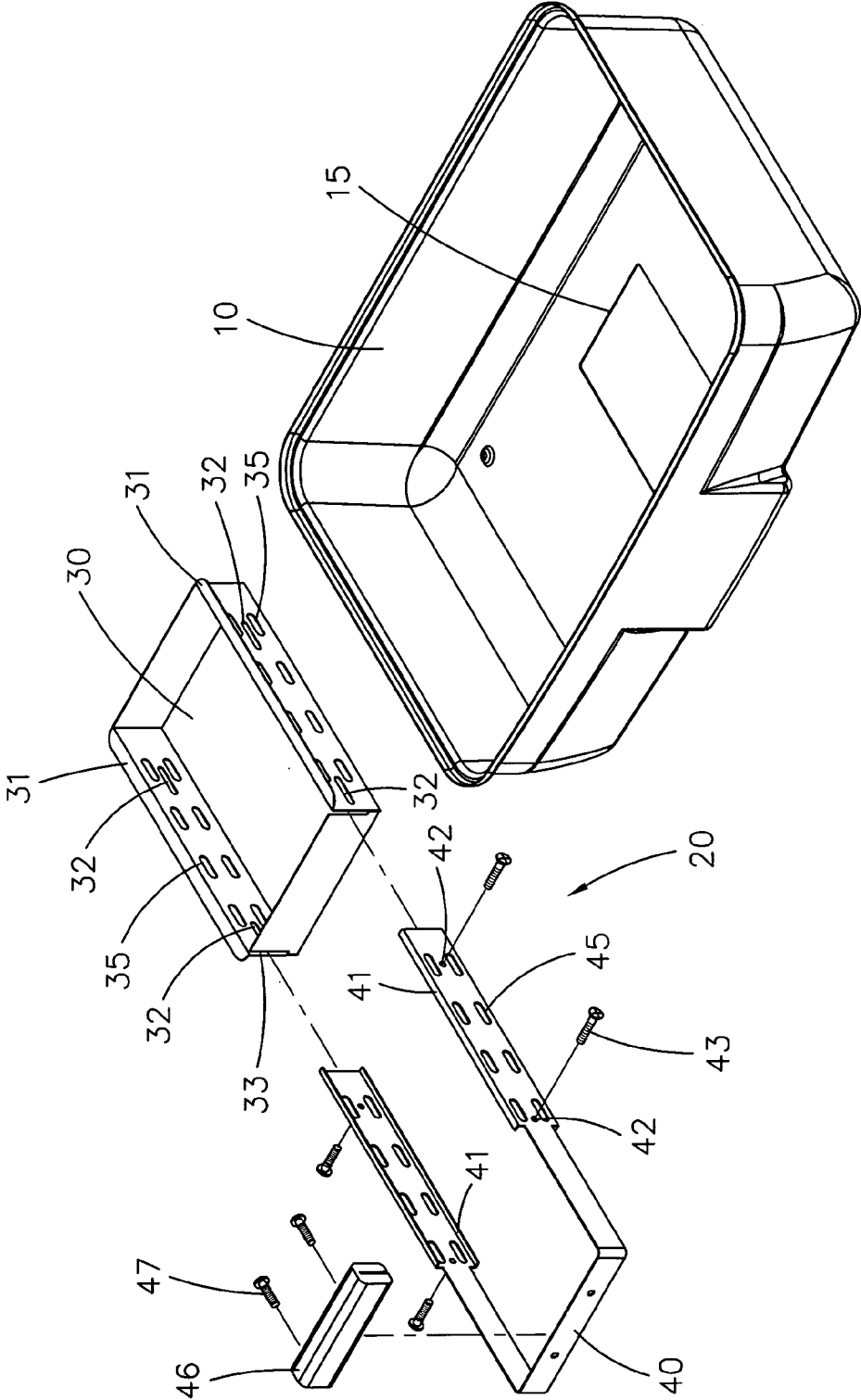


FIG. 4

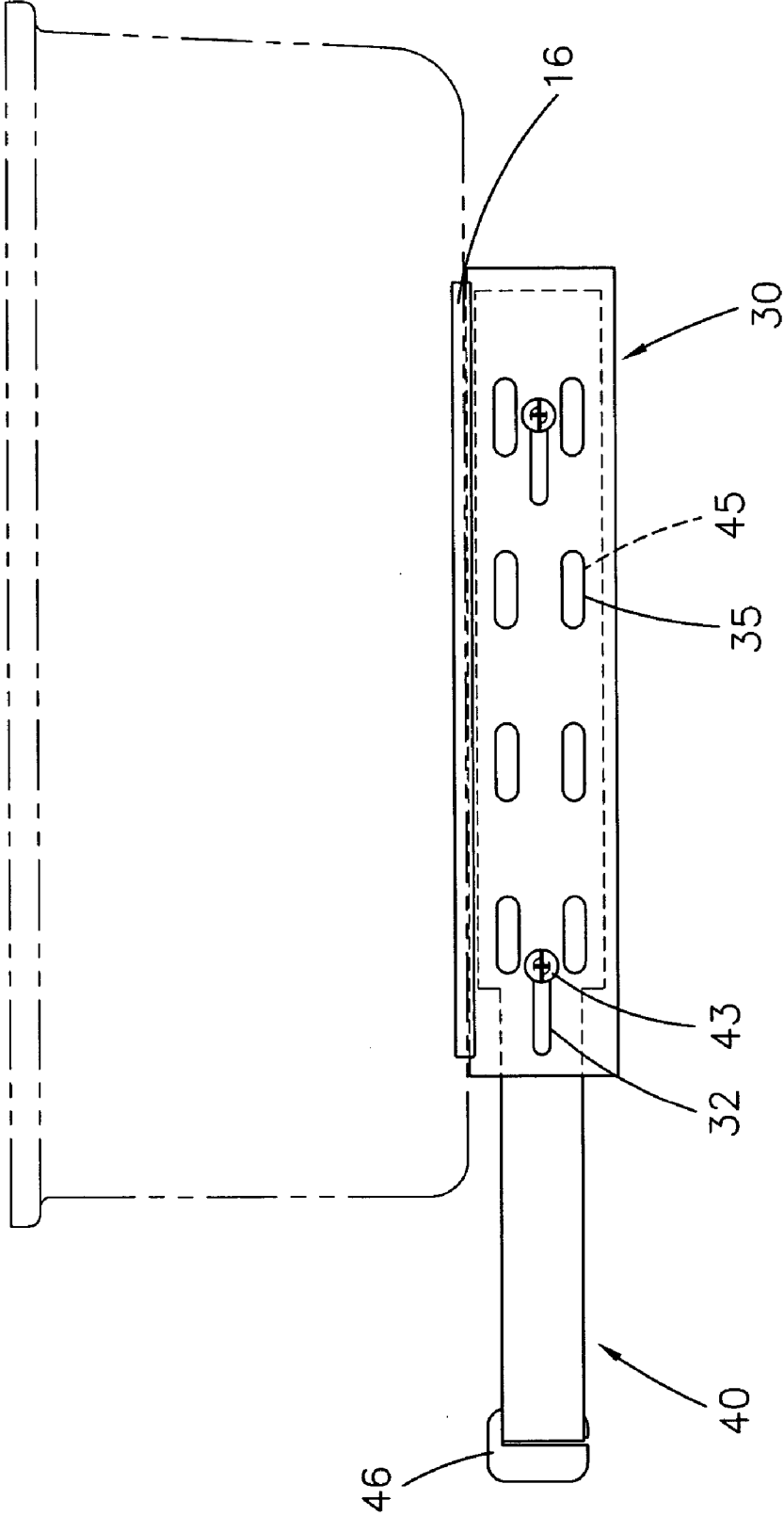


FIG. 5

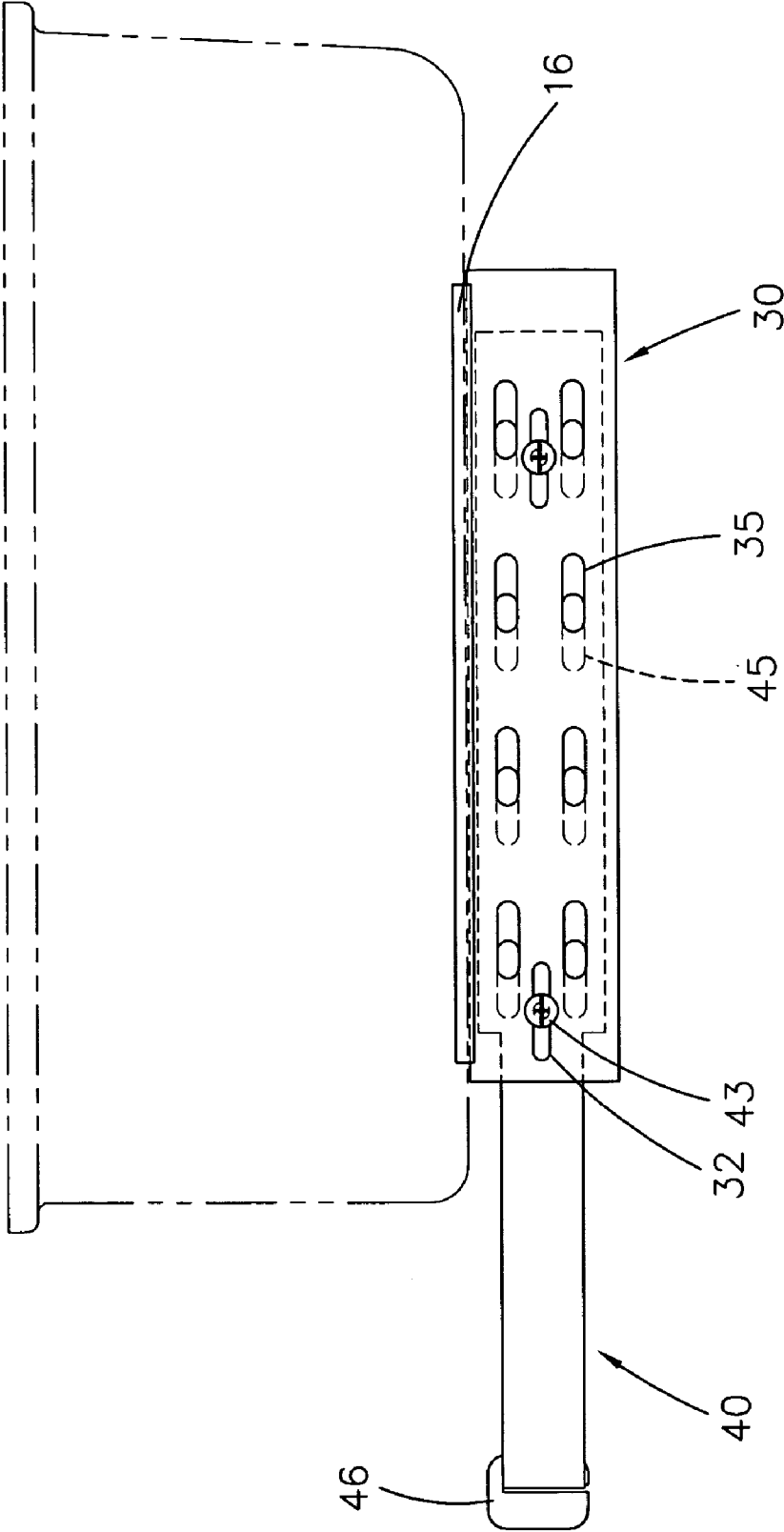


FIG. 6

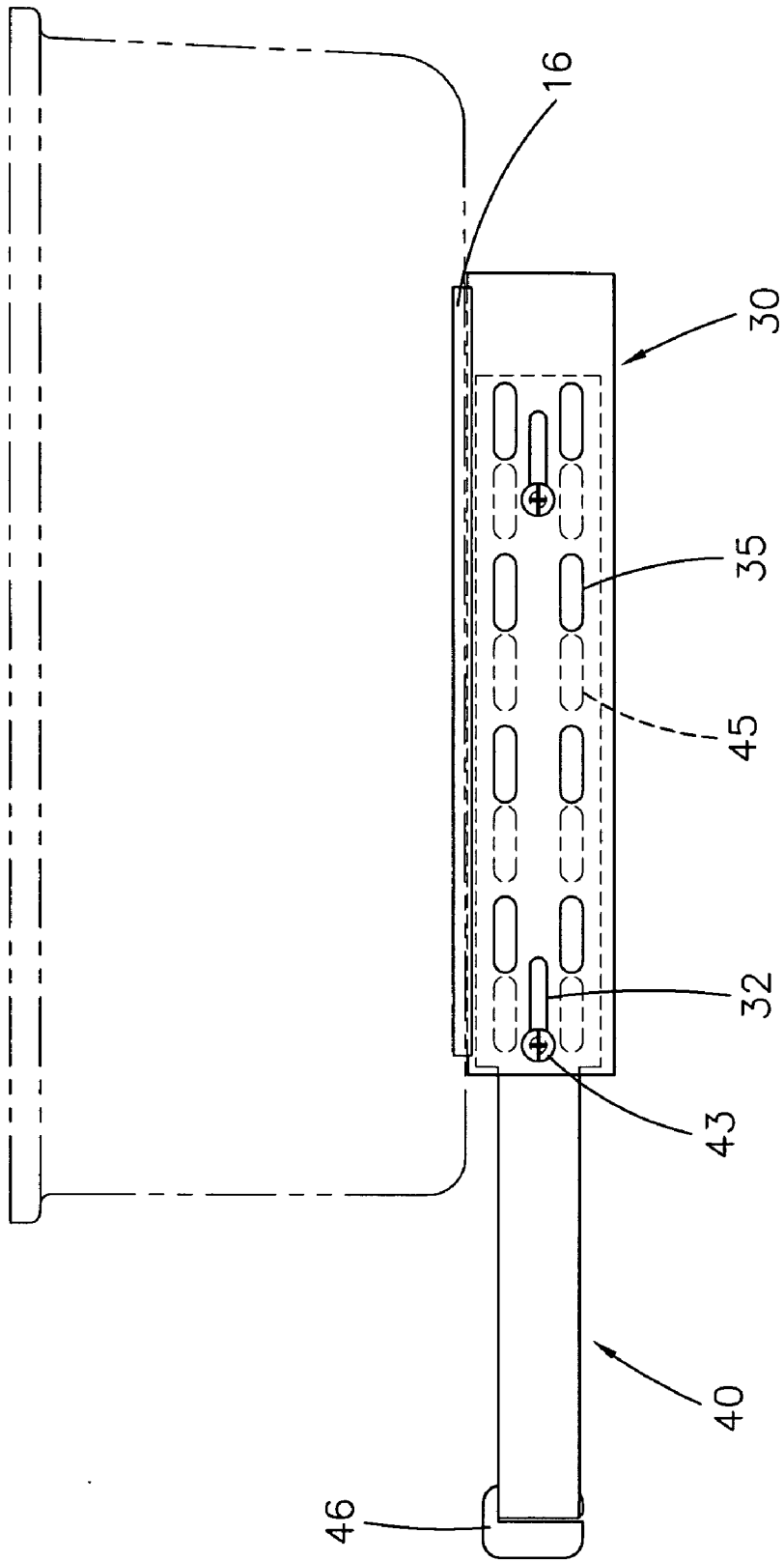


FIG. 7



## WASTE COLLECTOR FOR BARBECUE GRILL

### BACKGROUND OF THE INVENTION

#### [0001] 1. Field of the Invention

[0002] The present invention relates to a waste collector, and more particularly to a waste collector for a barbecue grill.

#### [0003] 2. Description of the Related Art

[0004] A conventional barbecue grill is used to broil food and comprises a main body having a periphery formed with a plurality of ventilating holes, a cooking grid mounted in the main body, a lid pivotally mounted on the top of the main body, and a waste collector mounted on the bottom of the main body. Thus, when the lid covers the main body, the lid and the main body form a closed space to facilitate the cooking grid broiling and cooking the food. However, each of the ventilating holes of the main body has a fixed size without a possibility of adjustment, so that the ventilating effect provided by the ventilating holes of the main body is fixed, thereby decreasing the cooking efficiency of the barbecue grill. In addition, the waste collector only has a single function, thereby limiting the versatility of the waste collector.

### SUMMARY OF THE INVENTION

[0005] The present invention is to mitigate and/or obviate the disadvantage of the conventional barbecue grill.

[0006] The primary objective of the present invention is to provide a waste collector having an adjustable ventilating effect.

[0007] Another objective of the present invention is to provide a waste collector that can regulate the ventilating effect of the grill body, thereby enhancing the cooking efficiency of the barbecue grill.

[0008] A further objective of the present invention is to provide a waste collector, wherein the user only need to drive the regulating member to move relative to the support member to regulate the ventilating effect of the grill body, thereby facilitating the user operating the barbecue grill to cook the food.

[0009] In accordance with the present invention, there is provided a barbecue grill, comprising:

[0010] a grill body having a bottom face formed with a through hole;

[0011] a waste collector mounted on the bottom face of the grill body and facing the through hole of the grill body; wherein

[0012] the waste collector includes a support member mounted on the bottom face of the grill body and facing the through hole of the grill body, and a regulating member movably mounted on the support member;

[0013] the support member has two side walls each formed with a plurality of elongated ventilating holes each connected to the through hole of the grill body;

[0014] the regulating member has two side walls each movably mounted in a respective one of the two side walls of the support member and each formed with a plurality of

elongated ventilating holes each connected to a respective one of the ventilating holes of the support member.

[0015] Further benefits and advantages of the present invention will become apparent after a careful reading of the detailed description with appropriate reference to the accompanying drawings.

### BRIEF DESCRIPTION OF THE DRAWINGS

[0016] **FIG. 1** is a perspective view of a barbecue grill in accordance with the preferred embodiment of the present invention;

[0017] **FIG. 2** is a partially perspective view of the barbecue grill as shown in **FIG. 1**;

[0018] **FIG. 3** is a perspective view of a waste collector of the barbecue grill as shown in **FIG. 1**;

[0019] **FIG. 4** is an exploded perspective view of the barbecue grill as shown in **FIG. 1**;

[0020] **FIG. 5** is a side plan view of the barbecue grill as shown in **FIG. 1**;

[0021] **FIG. 6** is a schematic operational view of the waste collector as shown in **FIG. 5**; and

[0022] **FIG. 7** is a schematic operational view of the waste collector as shown in **FIG. 6**.

### DETAILED DESCRIPTION OF THE INVENTION

[0023] Referring to the drawings and initially to **FIGS. 1-5**, a barbecue grill in accordance with the preferred embodiment of the present invention comprises a grill body **10** having a bottom face formed with a through hole **15**, and a waste collector **20** mounted on the bottom face of the grill body **10** and facing the through hole **15** of the grill body **10**.

[0024] The waste collector **20** includes a support member **30** mounted on the bottom face of the grill body **10** and facing the through hole **15** of the grill body **10**, and a regulating member **40** movably mounted on the support member **30**.

[0025] The bottom face of the grill body **10** is provided with two opposite substantially L-shaped guide tracks **16** (see **FIG. 5**), and the support member **30** of the waste collector **20** is slidably mounted between the guide tracks **16** of the grill body **10**.

[0026] The support member **30** is substantially basin-shaped and has two side walls each formed with a plurality of elongated ventilating holes **35** each connected to the through hole **15** of the grill body **10**. Each of the two side walls of the support member **30** has a top edge formed with an outward extended slide plate **31** slidably mounted in a respective one of the guide tracks **16** of the grill body **10**. Each of the two side walls of the support member **30** has two ends each formed with an elongated slide slot **32**. Each of the two side walls of the support member **30** has an end face formed with a guide groove **33**.

[0027] The regulating member **40** is substantially U-shaped and has two side walls each movably mounted in a respective one of the two side walls of the support member **30** and each formed with a plurality of elongated ventilating holes **45** each connected to a respective one of the ventilat-

ing holes **35** of the support member **30**. Each of the two side walls of the regulating member **40** is slidably mounted in the guide groove **33** of a respective one of the two side walls of the support member **30**. Each of the two side walls of the regulating member **40** has a top edge and a bottom edge each formed with an inward extended rib **41** to reinforce the strength of the regulating member **40** and to provide a limit effect to the support member **30**. Each of the two side walls of the regulating member **40** has two ends each formed with a through hole **42** for mounting a bolt **43** which is slidably mounted in the respective slide slot **32** of the support member **30** to lock the regulating member **40** on the support member **30** and to allow the regulating member **40** to slide relative to the support member **30**. The regulating member **40** has an end face provided with a handgrip **46** which is mounted on the regulating member **40** by a plurality of locking screws **47**.

[0028] Thus, the regulating member **40** is movable relative to the support member **30** between a first position as shown in **FIG. 5** where each of the ventilating holes **45** of the regulating member **40** is aligned with a respective one of the ventilating holes **35** of the support member **30** to provide the maximum ventilating effect, a second position as shown in **FIG. 6** where each of the ventilating holes **45** of the regulating member **40** is partially aligned with a respective one of the ventilating holes **35** of the support member **30** to regulate the ventilating effect, and a third position as shown in **FIG. 7** where each of the ventilating holes **45** of the regulating member **40** is separated from a respective one of the ventilating holes **35** of the support member **30** to form an air seal effect.

[0029] In practice, as shown in **FIG. 5**, when the regulating member **40** is pushed inward relative to the support member **30**, each of the ventilating holes **45** of the regulating member **40** is aligned with a respective one of the ventilating holes **35** of the support member **30** completely to provide the maximum ventilating effect to the through hole **15** of the grill body **10**, so that the grill body **10** has the maximum fire.

[0030] As shown in **FIG. 6**, when the regulating member **40** is pulled outward slightly relative to the support member **30**, each of the ventilating holes **45** of the regulating member **40** is partially aligned with a respective one of the ventilating holes **35** of the support member **30** to reduce the ventilating effect supplied to the through hole **15** of the grill body **10** so as to regulate the fire of the grill body.

[0031] As shown in **FIG. 7**, when the regulating member **40** is fully pulled outward relative to the support member **30**, each of the ventilating holes **45** of the regulating member **40** is separated from a respective one of the ventilating holes **35** of the support member **30** to form an air seal effect, so that the grill body **10** has the minimum fire.

[0032] Accordingly, the waste collector **20** can regulate the ventilating effect of the grill body, thereby enhancing the cooking efficiency of the barbecue grill. In addition, the user only need to drive the regulating member **40** to move relative to the support member **30** to regulate the ventilating effect of the grill body, thereby facilitating the user operating the barbecue grill to cook the food.

[0033] Although the invention has been explained in relation to its preferred embodiment(s) as mentioned above, it is to be understood that many other possible modifications and

variations can be made without departing from the scope of the present invention. It is, therefore, contemplated that the appended claim or claims will cover such modifications and variations that fall within the true scope of the invention.

What is claimed is:

1. A barbecue grill, comprising:

a grill body having a bottom face formed with a through hole;

a waste collector mounted on the bottom face of the grill body and facing the through hole of the grill body; wherein

the waste collector includes a support member mounted on the bottom face of the grill body and facing the through hole of the grill body, and a regulating member movably mounted on the support member;

the support member has two side walls each formed with a plurality of elongated ventilating holes each connected to the through hole of the grill body;

the regulating member has two side walls each movably mounted in a respective one of the two side walls of the support member and each formed with a plurality of elongated ventilating holes each connected to a respective one of the ventilating holes of the support member.

2. The barbecue grill in accordance with claim 1, wherein the regulating member is movable relative to the support member between a first position where each of the ventilating holes of the regulating member is aligned with a respective one of the ventilating holes of the support member to provide the maximum ventilating effect, a second position where each of the ventilating holes of the regulating member is partially aligned with a respective one of the ventilating holes of the support member to regulate the ventilating effect, and a third position where each of the ventilating holes of the regulating member is separated from a respective one of the ventilating holes of the support member to form an air seal effect.

3. The barbecue grill in accordance with claim 1, wherein the bottom face of the grill body is provided with two opposite substantially L-shaped guide tracks, and the support member of the waste collector is slidably mounted between the guide tracks of the grill body.

4. The barbecue grill in accordance with claim 3, wherein each of the two side walls of the support member has a top edge formed with an outward extended slide plate slidably mounted in a respective one of the guide tracks of the grill body.

5. The barbecue grill in accordance with claim 1, wherein the support member is substantially basin-shaped.

6. The barbecue grill in accordance with claim 1, wherein each of the two side walls of the support member has an end face formed with a guide groove, and each of the two side walls of the regulating member is slidably mounted in the guide groove of a respective one of the two side walls of the support member.

7. The barbecue grill in accordance with claim 1, wherein each of the two side walls of the support member has two ends each formed with an elongated slide slot, and each of the two side walls of the regulating member has two ends each formed with a through hole for mounting a bolt which is slidably mounted in the respective slide slot of the support

member to lock the regulating member on the support member and to allow the regulating member to slide relative to the support member.

8. The barbecue grill in accordance with claim 1, wherein the regulating member is substantially U-shaped.

9. The barbecue grill in accordance with claim 1, wherein each of the two side walls of the regulating member has a top edge and a bottom edge each formed with an inward extended rib to reinforce the strength of the regulating member and to provide a limit effect to the support member.

10. The barbecue grill in accordance with claim 1, wherein the regulating member has an end face provided with a handgrip.

11. The barbecue grill in accordance with claim 10, wherein the handgrip is mounted on the regulating member by a plurality of locking screws.

12. The barbecue grill in accordance with claim 1, wherein when the regulating member is pushed inward relative to the support member, each of the ventilating holes

of the regulating member is aligned with a respective one of the ventilating holes of the support member completely to provide the maximum ventilating effect to the through hole of the grill body.

13. The barbecue grill in accordance with claim 12, wherein when the regulating member is pulled outward slightly relative to the support member, each of the ventilating holes of the regulating member is partially aligned with a respective one of the ventilating holes of the support member to reduce the ventilating effect supplied to the through hole of the grill body.

14. The barbecue grill in accordance with claim 13, wherein when the regulating member is fully pulled outward relative to the support member, each of the ventilating holes of the regulating member is separated from a respective one of the ventilating holes of the support member to form an air seal effect.

\* \* \* \* \*