What is claimed is:

1. A film-uncovering and material-feeding mechanism for feeding food material to a cooking pot, comprising a food material box, a film-uncovering assembly and a connection housing assembly configured to support the food material box and the film-uncovering assembly;

wherein,

the connection housing assembly is provided with a feed port configured to feed a food material into the cooking pot;

the food material box comprises a box body movably connected to the connection housing assembly and configured to accommodate the food material, and a seal film provided between the box body and the connection housing assembly and configured to seal the box body, the seal film is provided with a hitching opening; and

the film-uncovering assembly comprises a film-uncovering rotation shaft and a drive device configured to drive the film-uncovering rotation shaft to rotate, and the film-uncovering rotation shaft is provided with a hook configured to be hitched with the hitching opening to uncover the seal film via rotation and to drive the box body to move towards the feed port.

2. The film-uncovering and material-feeding mechanism according to claim 1, wherein the film-uncovering assembly further comprises a shaft sleeve connected to the film-uncovering rotation shaft, a clutch connected to the drive device, and a first holder connected to the connection housing assembly and configured to secure the shaft sleeve and the clutch, and the drive device drives the clutch to rotate in a forward or reverse direction to cause the clutch to be engaged with or disengaged from the shaft sleeve.

3. The film-uncovering and material-feeding mechanism according to claim 1, wherein the clutch comprises a clutch shaft rod, a clutch nut that is screw-fitted with the clutch shaft rod and a second holder configured to secure the clutch nut, and the second holder is mounted on the first holder.

4. The film-uncovering and material-feeding mechanism according to claim 1, wherein the shaft sleeve comprises an inner sleeve configured to secure the film-uncovering rotation shaft and a movable sleeve fitted in the inner sleeve and configured to be connected with or disengaging from the clutch shaft rod, and a spring is provided between the inner sleeve and the movable sleeve.

5. The film-uncovering and material-feeding mechanism according to claim 1, wherein the box body comprises a plurality of sub-boxes that are independent from one another and of different volumes.

6. The film-uncovering and material-feeding mechanism according to any one of claims 1 to 4, wherein the connection housing assembly is provided with an infrared sensor for triggering and positioning the food material box, and the infrared sensor comprises an infrared emitter and an infrared receiver.

7. The film-uncovering and material-feeding mechanism according to any one of claims 1 to 4, wherein the connection housing assembly comprises a first housing and a second housing sleeved outside the first housing, the first housing is provided with a first feed port, the second housing is provided with a second feed port corresponding to the first feed port, the food material box is movably connected to the second housing, and the cooking pot is connected below the first housing and the second housing.

8. The film-uncovering and material-feeding mechanism according to claim 7, wherein the first housing is provided with an extension plate configured to be connected with the second housing, and the extension plate is provided with a connection pin and a connection lug for fixing the second housing.

9. The film-uncovering and material-feeding mechanism according to claim 7, wherein the second housing is provided with a guide groove configured to be slidingly engaged with the food material box, and the second feed port is opened at one end of the guide groove.

10. The film-uncovering and material-feeding mechanism according to claim 3,wherein the drive device is a speed reduction motor, and an output torque of the speed reduction motor ranges from 2kgf.cm to 14kgf.cm.

11. The film-uncovering and material-feeding mechanism according to claim 10, wherein the clutch nut is a hex nut, an outer ring of the clutch shaft rod has an external thread, the hex nut has an internal thread matching with the external thread.

12. The film-uncovering and material-feeding mechanism according to any one of claims 1 to 4, wherein the hook is arranged at the intermediate section of the film-uncovering rotation shaft, with the position of the hitching opening corresponding to the position of the hook.