CLAIMS

1. A hydraulic hammer device for excavators comprising at least one ripper and an energy accumulator integrally connected between the body of the ripper and the head of the machine in which the hydraulic hammer devices is installed **characterized in that** the device comprises at least one cylinder integrally connected to the ripper and housed inside the body of the ripper in a space provided for such purpose in a position longitudinally aligned with the shaft in which the ripper attacks the ground, such that said cylinder delivers blows to the body of the ripper itself in a region of impact; and wherein the energy accumulator is located on the longitudinal shaft of the ripper and arranged to be loaded due to the reaction force of the blow of the cylinder and unloaded when the device attacks the ground.

2. The device according to claim 1comprising at least two cylinders integrally connected to the ripper and housed therein forming between them an angle the vertex of which coincides with the shaft which attacks the ground; and where each of said cylinders comprises an energy chamber, said energy chambers of the cylinders communicating with one another, such that they allow alternating movement of both cylinders.

3. The device according to claim 2, wherein the cylinders are arranged with respect to one another such that the force vector of both cylinders is oriented towards one and the same point coinciding with the attack vector which attacks the bottom of the ripper.

4. The device according to any of claims 2 and 3, wherein the point coinciding with the attack vector which attacks the bottom of the ripper coincides with the connection point of the tooth with the ripper.

5. The device according to any of claims 2 to 4, where the cylinders deliver blows to the body of the ripper itself in the region of impact.

6. The device according to any of the preceding claims, wherein the region of

impact is a dolly integrally connected to the ripper.

7. The device according to any of the preceding claims comprising at least one control element for controlling the passage of oil to each cylinder.

5

8. The device according to claim 1, wherein the energy accumulator is an air cushion.

CLAIMS

1. A hydraulic hammer device for excavators comprising at least one ripper (1) and an energy accumulator (4); where the energy accumulator (4) is located on the longitudinal shaft of the ripper (1) and integrally connected to said ripper (1); and where said longitudinal shaft of the ripper (1) is on that which attacks the ground between the retracted and deployed positions of the ripper (1) and **characterized in that** it comprises at least one cylinder (2) connected to the ripper (1) and longitudinally aligned with the said longitudinal shaft of the ripper.

2. The device according to claim 1, wherein the cylinder (2) is housed inside the ripper (1) in a space (13) provided for such purpose in a position longitudinally aligned with the shaft which attacks the ground (F1), such that said cylinder delivers blows to the body of the ripper (1) itself in a region of impact (14).

3. The device according to any of claims 1-2 comprising at least two cylinders (2,3) connected to the ripper (1) forming between them an angle the vertex of which coincides with the shaft which attacks the ground (F1); and where each of said cylinders (2,3) comprises an energy chamber (21,31), said energy chambers (21,31) of the cylinders communicating with one another (22), such that they allow alternating movement of both cylinders (2,3).

4. The device according to claim 3, wherein the cylinders (2,3) are arranged with respect to one another such that the force vector (F2,F3) of both cylinders (2,3) is oriented towards one and the same point coinciding with the attack vector (F1) which attacks the bottom of the ripper.

5. The device according to any of claims 3 and 4, wherein the point coinciding with the attack vector (F1) which attacks the bottom of the ripper coincides with the connection point (12) of the tooth (11) with the ripper (1).

6. The device according to any of claims 3 to 5, where the cylinders (2,3) deliver blows to the body of the ripper (1) itself in a region of impact (14).

7. The device according to any of claims 2 and 6, wherein said region of impact (14) is a dolly integrally connected to the ripper (1).

8. The device according to any of the preceding claims comprising at least one control element for controlling the passage of oil to the cylinders (2,3).

9. The device according to any of the preceding claims, where the energy accumulator (4) is integrally connected between the body of the ripper (1) and the head (5) of the machine.

10. The device according to claim 7, wherein the energy accumulator (4) is an air cushion.