Patent Claims

1. A door system for an elevator installation including an elevator car for travel in an elevator shaft, the door system comprising:

a pivotable first car door leaf arranged at the elevator car;

a pivotable first shaft door leaf arranged at a shaft door opening of the elevator shaft,

wherein at least a part of the shaft door opening is closed by the first shaft door leaf in a closed position thereof and a shaft door plane is formed by the first shaft door leaf, wherein at least a part of a car door opening of the elevator car is closed by the first car door leaf in a closed position thereof and a car door plane is formed by the first car door leaf;

wherein the car door leaf, in an open position thereof, extends through the shaft door plane, or the shaft door leaf, in an open position thereof, extends through the car door plane;

wherein the first car door leaf is mounted at a main pivot axis arranged at the elevator car and the first shaft door leaf is mounted at a further main pivot axis, the main pivot axis being arranged in parallel to the further main pivot axis;

a second car door leaf pivotably mounted at a secondary pivot axis at the first car door leaf wherein the first car door leaf and the second car door leaf form a folding car door;

a second shaft door leaf pivotably mounted at a further secondary pivot axis at the first shaft door leaf wherein the first shaft door leaf and the second shaft door leaf form a folding shaft door, wherein the secondary pivot axes are arranged in parallel to the main pivot axes; and

wherein the first shaft door leaf and the first car door leaf, in the open position, are adjacent each other, wherein the second shaft door leaf and the second cabin door leaf, in the open position, are adjacent each other, and wherein the first shaft door leaf and the second shaft door leaf are disposed between the first car door leaf and the second car door leaf in the open position or the first car door leaf and the second car door leaf are disposed between the first shaft door leaf and the second shaft door leaf in the open position.

2. The door system according to Claim 1 wherein second car door leaf has a bearing shaft arranged to be displaced along the car door plane during an opening or closing of the door system and the second shaft door leaf has a further bearing shaft arranged to be displaced along the shaft door plane during the opening or closing of the door system.

3. The door system according to Claim 1 wherein the first car door leaf and the second car door leaf, in the open position, form an opening angle in a range of

5-15 degrees.

4. The door system according to Claim 1 wherein the first shaft door leaf and the second shaft door leaf, in the open position, form an opening angle in a range of 5-15 degrees.

5. The door system according to Claim 1 wherein at least one of the main pivot axes and the secondary pivot axes are arranged vertically.

6. The door system according to Claim 1 being formed as a folding door system.

7. The door system according to Claim 1 wherein the first shaft door leaf, in the closed position, has a horizontally oriented width parallel to the shaft door plane, and the first car door leaf, in the closed position, has a horizontally oriented width parallel to the car door plane, wherein the widths are identical.

8. The door system according to Claim 7 wherein the second shaft door leaf, in the closed position, has a horizontally oriented width parallel to the shaft door plane, and the second car door leaf, in the closed position, has a horizontally oriented width parallel to the car door plane, wherein the widths of the second shaft door leaf and the second car door leaf are substantially identical, and wherein the width of the first car door leaf is identical to the width of the second car door leaf.