

ABSTRACT OF DISCLOSURE

DEVICE FOR HANDLING A STRUCTURE THAT IS BEING LIFTED OR LOWERED

Applicant:

HYDRALIFT-BLM

Inventor:

Frank MACHU

The operating device according to the invention includes a rack (C) cut on both sides (12, 22), sandwiched between two pinions (A, B) with horizontal axes and arranged in the same horizontal plane or substantially in the same horizontal plane, driven into opposite directions by the same motorised system (2).

The outlet shaft (3) of the motorised system (2) transmits the driving motion to a primary reducing system (4) whereof the outlet shaft (5) corresponds to the inlet shaft of a secondary reducing gear (6) of planetary differential type including a solar pinion (7), satellite pinions (8) and an outer ring (14).

The satellite holder (9) of said secondary differential reducing gear (6) drives one of the pinions (A) on one of the sides (12) of the double rack (C); and the outer ring (14) of said planetary reducing gear (6) drives, by appropriate mechanical means (18), a toothed wheel (17) in charge in turn of driving the second pinion (B) on the other side (22) of said double rack (C).

Figure 1



162162



G00002