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(54) Title: A MOTORCYCLE FRONT FORK ASSEMBLY

(57) Abstract

A motorcycle front fork assembly comprises substantially parallel fork legs (15), each leg being connected to an articulated linkage (16). The articulated linkage comprises a telescopic member (19) concentric with or adjacent to each fork leg (15) and axially movable substantially in the plane of the fork legs and a suspension link (17) having a first end for supporting a wheel spindle (24), a second end (22), and being pivotally connected between the two ends (22, 24) to the telescopic member (19). So that trail variations may be kept to the minimum, restraining means pivotally connect the second end (22) of the suspension link (17) to the leg (15) and allow translational movement of the second end (22) during axial movement of the telescopic member (19) in response to movement of the said first end (24). By simple experiment suitable dimensions may be determined to maintain trail variation substantially constant for any steering variation.

The restraining means may be in the form of a link (18) pivotally connected between the second end (22) and the leg (15), or for example a slider or roller moving along a guide or track arranged between the second end (22) and the leg (15).

