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A.v.d. Goesstraat 25, 2026TH Haarlem (NL).

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(74) Agent: **LUNDAHL, Kjell**; Saab Bofors Support AB,
Patents and Trademarks, S-691 80 Karlskoga (SE).

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(71) Applicants (for all designated States except US): **COMBI WEAR PARTS AB**; Box 205, S-681 24 Kristinehamn (SE). **VOSTA LMG B.V.** [NL/NL]; Klaprozenweg 75, 1033 NN Amsterdam (NL).

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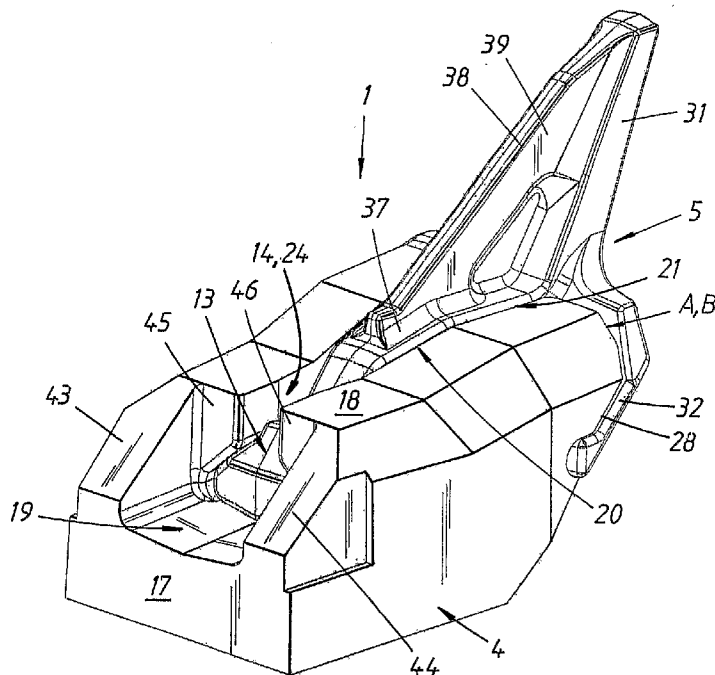
(72) Inventors; and

(75) Inventors/Applicants (for US only): **GABELA, Adnan** [SE/SE]; Spelmansgatan 25, S-681 31 Kristinehamn (SE). **QUARFORDT, Per** [SE/SE]; Stockvikens Gård, S-668 91 Storfors (SE). **WEMPE, Cornelis** [NL/NL]; Lagedijk

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(54) Title: TOOTH SYSTEM



(57) Abstract: The present invention relates to a tooth system (1) for a tool (2) for earth moving machinery (3), which tooth system is of the type embodying a holder (4) located on the tool and a front tooth portion (5) that is detachably arranged on and in relation to the holder, which tooth portion is in the form of a replaceable wear and/or replacement part designed for the actual earth moving (W) and embodies a rear leg and the holder embodies a cavity (14) designed to receive the leg in interaction with the tooth portion and thereby achieve a unified joint (A, B, C, D) for assimilation of occurring loads (F_s , F_c , F_p) via a predetermined connection geometry embodying special, opposite, mutually interacting contact surfaces (15) and, at least initially, clearance surfaces (16) that are arranged along the tooth portion and holder. Thus, in accordance with the present invention one has achieved an improved tooth system distinguished by the tooth leg and holder cavity, along at least a front part of said joint (A, B, C, D), to have a multi-armed, preferably cruciform, cross section comprising at least four projection

arms (31, 32, 33, 34) and at least four grooves (24, 28, 29, 30) each that interact with each projecting arm, respectively, which projection arms comprise an, essentially, vertically arranged, upper arm (31), an, essentially vertically arranged, lower heel (34) and two, essentially horizontally and laterally arranged, wing portions (32, 33), wherein a tensioning device (41) is arranged in the rear part (19) of the cavity in order to achieve adjustable tensioning that tightens the tooth portion in relation to the holder, essentially axially along the axial symmetry axis Y of the cavity.

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