Title: ABACUS3: The Teaching Abacus.

Abstract:

A 3rd Generation abacus specifically designed for teaching basic mathematics is disclosed, including 2 versions: abacus3.1 - the first version for teaching addition and subtraction; and abacus3.2, the second version for teaching multiplication and division. Unlike earlier abaci, which were intended for use by adults, and mainly for commercial transactional computations, Abacus3 is designed for teaching young and older children (from 2 to 12) foundational math concepts and processes, including essential number concepts (such as number bonds and place value,) and addition, subtraction, multiplication and division. Unlike an adult abacus, Abacus3 does not require children to memorize intermediate results in a multi-step math solution sequence or in an operation involving more than 2 sets of numbers, as these intermediary steps are clearly visible and understandable.

Figure/ to be published: Figure 1

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Figures to be published:

Figure 1: ABACUS3.1	Figure 2a: ABACUS3.2	Figure 2b. ABACUS3.2
		