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(71) Applicant (for all designated States except US):
LIVELEAF, INC. [US/US]; 1200 Industrial Road, 9B,
San Carlos, CA 94070 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **HUANG, Alexander,**
L. [US/US]; 903 Arnold Way, Menlo Park, CA 94025
(US). **WU, Gin** [US/US]; 20 Bay Way, San Rafael, CA
94901 (US).(74) Agent: **BOYER, Brian S.**; Syndicated Law, 460 Seaport
Court, Suite 101, Redwood City, CA 94063 (US).

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(54) Title: SITE-ACTIVATED BINDING SYSTEMS THAT SELECTIVELY INCREASE THE BIOACTIVITY OF PHENOLIC COMPOUNDS AT TARGET SITES

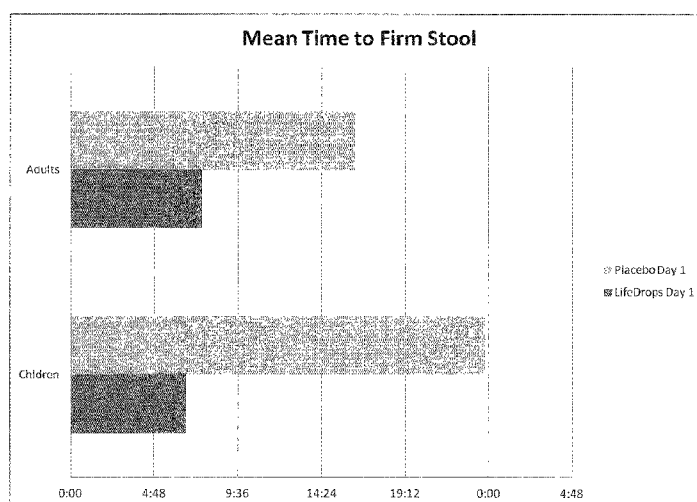


FIG. 6A

(57) Abstract: The teachings provided herein generally relate to site-activated binding systems that selectively increase the bioactivity of phenolic compounds at target sites. The systems can include a phenolic compound bound to a reactive oxygen species, wherein the phenolic compound and the reactive oxygen species can react at a target area in the presence of an oxidoreductase enzyme. The systems can be used, for example, as an antitoxin, an anti-inflammatory, or an antimicrobial. Uses can include treatment of a gastrointestinal condition, a damaged dermal tissue, or a damaged mucosal tissue, as well as in promoting gastrointestinal health that can, for example, result in alleviating gastrointestinal discomfort or, perhaps, creating a weight gain in an animal.

