



(12) **United States Patent**
Bourget

(10) **Patent No.:** **US 9,409,314 B2**
(45) **Date of Patent:** **Aug. 9, 2016**

- (54) **CONCRETE POWER SAW**
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- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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- (21) Appl. No.: **14/715,209**
- (22) Filed: **May 18, 2015**

(65) **Prior Publication Data**
US 2015/0246461 A1 Sep. 3, 2015

- (51) **Int. Cl.**
B28D 7/02 (2006.01)
B28D 1/04 (2006.01)
- (52) **U.S. Cl.**
CPC . **B28D 7/02** (2013.01); **B28D 1/045** (2013.01)
- (58) **Field of Classification Search**
None
See application file for complete search history.

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(57) **ABSTRACT**

A concrete saw for cutting a concrete slab incorporating a rollable trolley having upper, lateral, front, and rear ends; an engine fixedly attached to the rollable trolley, the engine having a rotary power output; a blade connected operatively to the engine's rotary power output for, upon movement of the first rollable trolley over the concrete slab, slotting said slab and drawing concrete cuttings therefrom; a shroud fixedly attached to the first rollable trolley, the shroud having a plurality of side walls, a floor, and a ceiling, the shroud housing the blade, and defining a dust containment space; an Archimedes' screw having input and output ends, the Archimedes screw's input end being positioned within the shroud's dust containment space; power transfer gears connected operatively to the Archimedes screw's for conveying the concrete cuttings from the Archimedes screw's input end to the output end; and a receptacle under the output end.

18 Claims, 3 Drawing Sheets

